iVMS-4000(V2.02)

User Manual

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Chapter 1 Welcome to iVMS-4000 (V2.02)

1.1 Overview

The iVMS-4000(V2.02) is the client application specially developed for the embedded DVR. It is applicable to DVR, DVS, 7600 series NVR/ hybrid NVR, IP Camera, IP Dome and iVMS-2000 server.

There may be technical inaccuracies, or typographical errors in the manual. The contents including description of products and program will be updated without notice.

1.2 Computer Disposition Request

Operating System: Microsoft Windows XP, 2003, Vista,7

CPU: Intel Pentium IV 3.0 GHz or models above

RAM: 1G or above

Display: 1024×768 resolution or above

1.3 Convention

Conventions as follows in this manual:

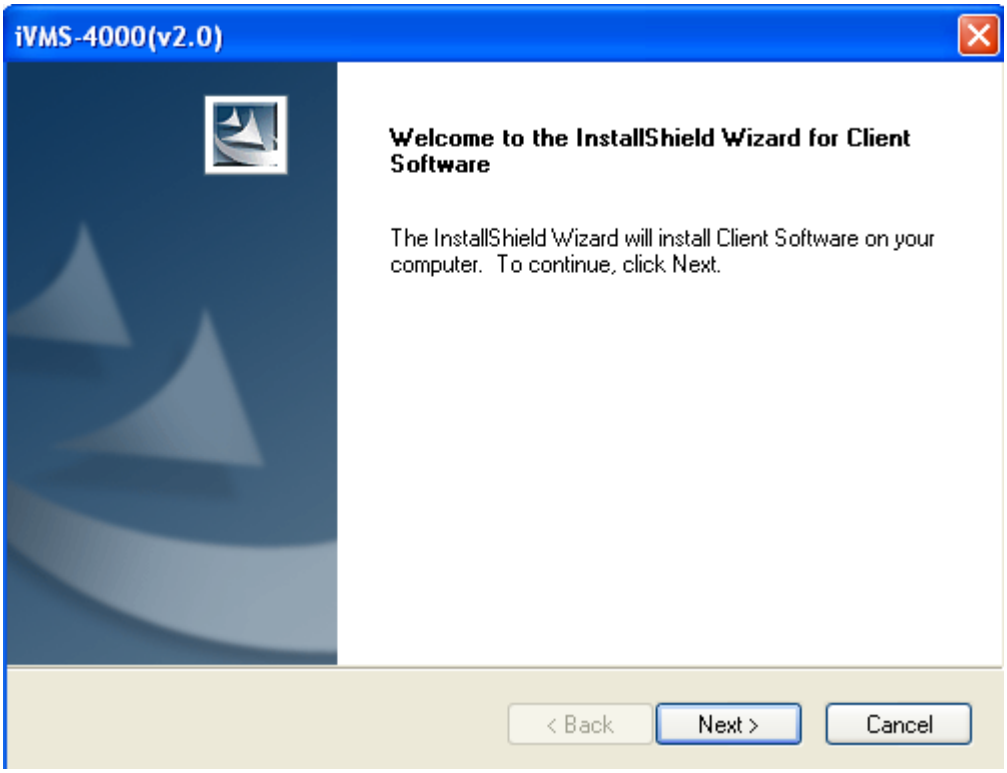
- DVR, DVS, 7600 series NVR/ hybrid NVR, IP Camera and IP Dome are all referred to as device
- Click refers to left click mouse
- Double click refers to double left click mouse

Chapter 2 Install & Uninstall

2.1 Install the Software

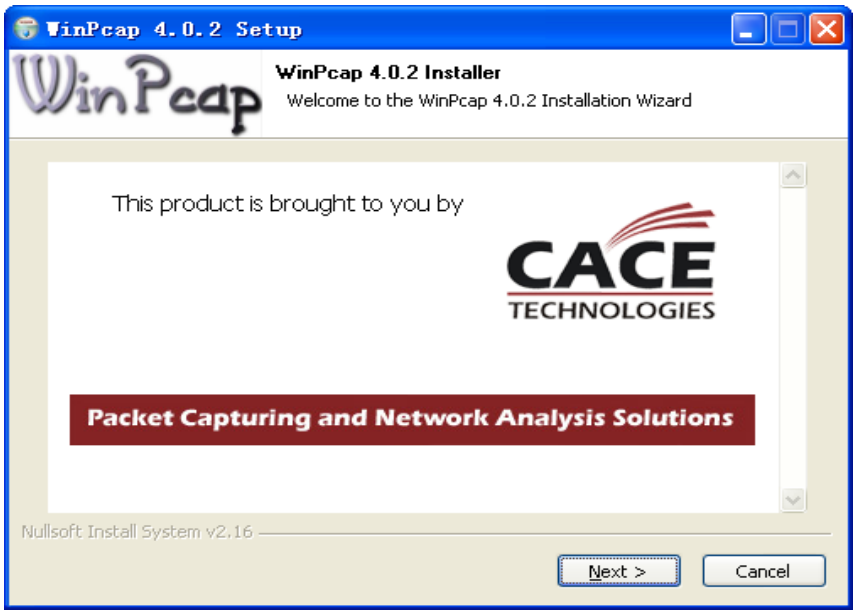
Double click

icon and you will see the wizard shown as below:


iVMS-4000(v2.0)
Welcome to the InstallShield Wizard for Client Software
The InstallShield Wizard will install Client Software on your computer. To continue, click Next.
< Back
Next >
Cancel

Click “Next” to continue, and input the user information, software installed location according to the hints.

After that, a SADP installation wizard will pop up; click “Next” to start to install WinPcap. If it is already installed, the installation can be cancelled.



Note: SADP is used as the on-line device finder; this function is unavailable if the WinPcap is not installed.

2.2 Uninstall Software

Enter start menu, select “All programs”→”iVMS-4000(v2.0)”→”Uninstall iVMS”, and the install shield hint shown as below will pop up:

Client Software - InstallShield Wizard
Do you want to completely remove the selected application and all of its features?
Yes
No

Click “Yes” and start to uninstall the software, the un-installation will finish after the computer restarted.

Chapter 3 Basic Operations

Path: “Start”→”All Programs”→”iVMS-4000(v2.0)”→” iVMS-4000(v2.0)”

3.1. Used for the First Time

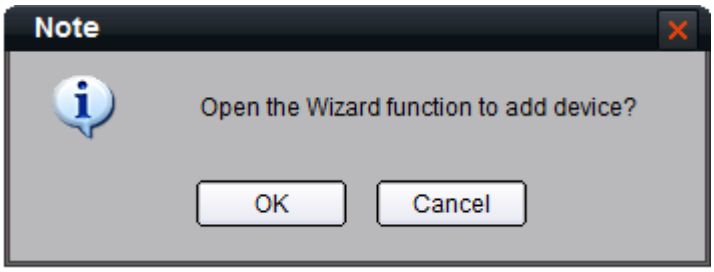
User needs to register an administrator if the iVMS software is used for the first time, shown as below:

Input the user name and password and click “Register”, then user can login as the administrator.

Note: Enter, Space, and TAB button is invalid in the user name and password. The password cannot be null, and should not contain the following characters, including % ' ％ / : * ? " < > | \ .Password should not be less than six characters and does not support the copy and paste.

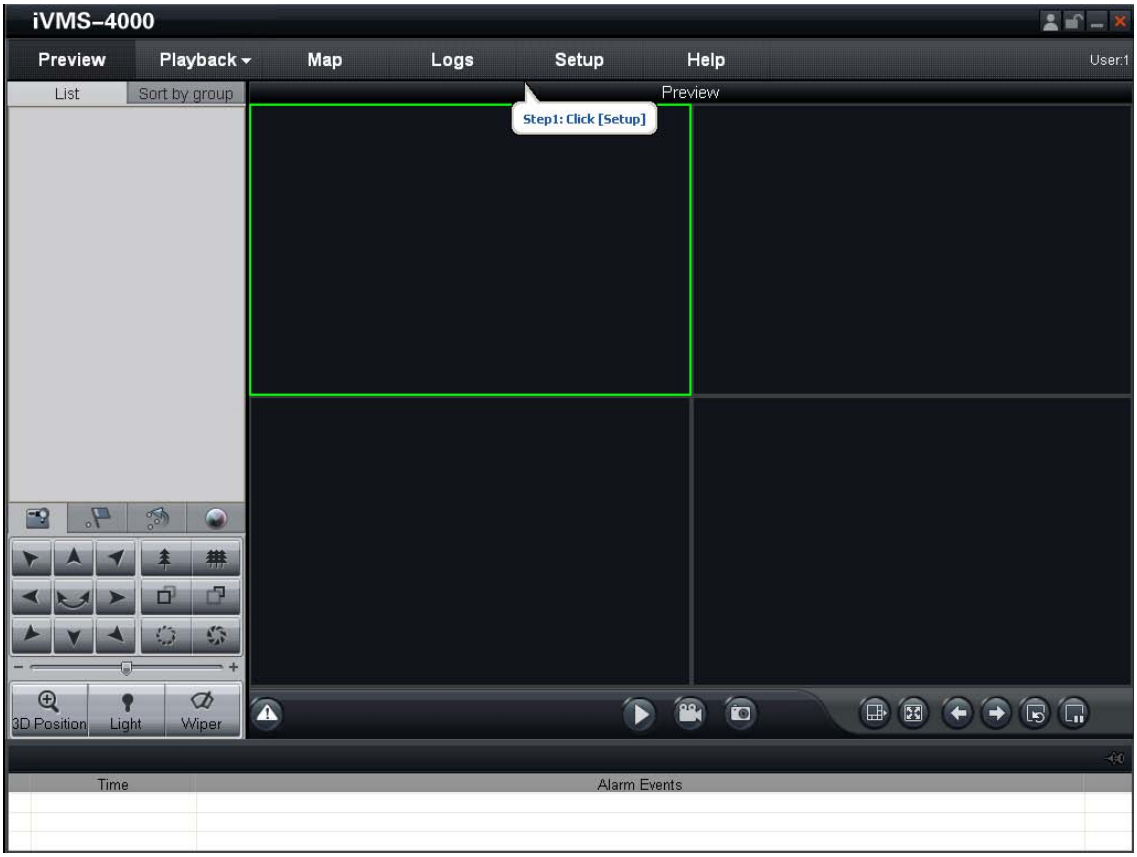
Add Device Wizard

After registered administrator and logged in, the note of start wizard will pop up, shown as figure below:

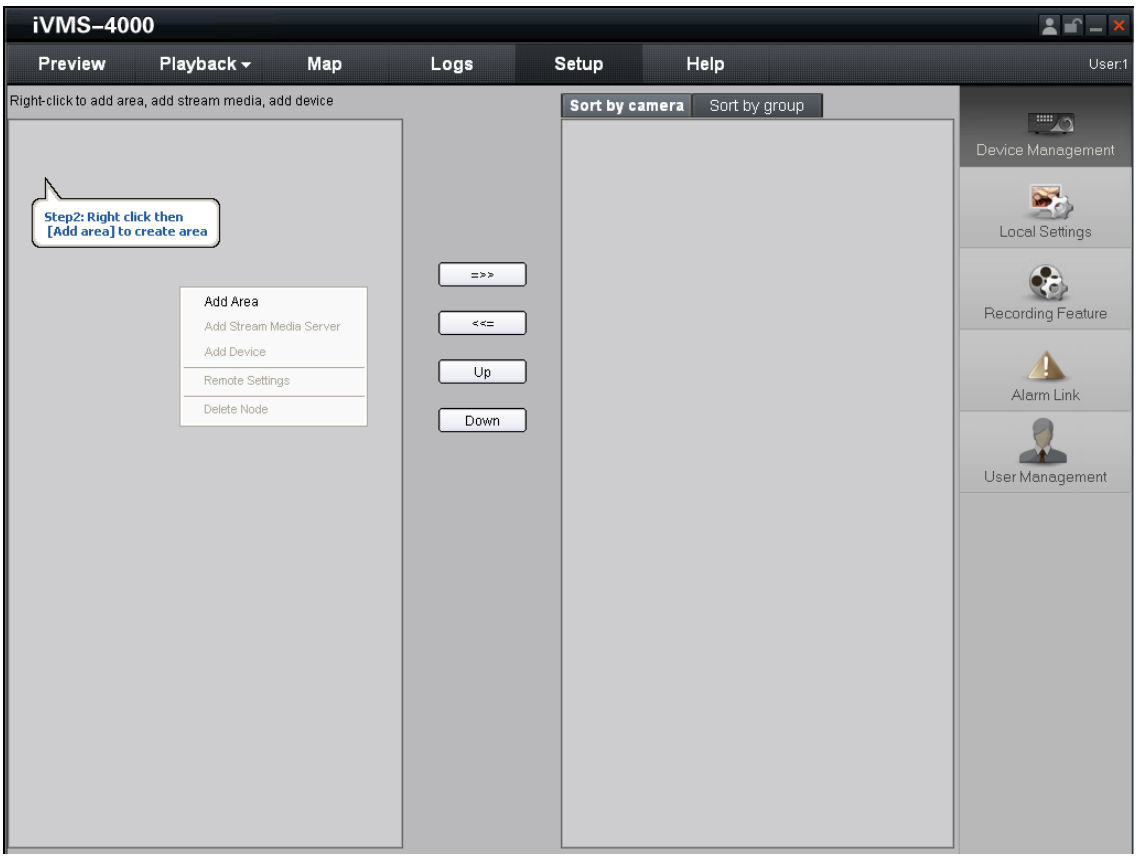


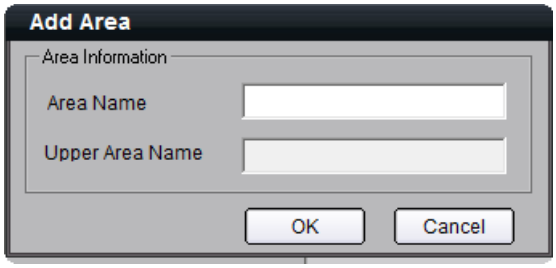
Click “OK” to start the wizard and add the device, click “Cancel” to exit the wizard.

1st step: According to the hint, click Setup to enter adding device interface.

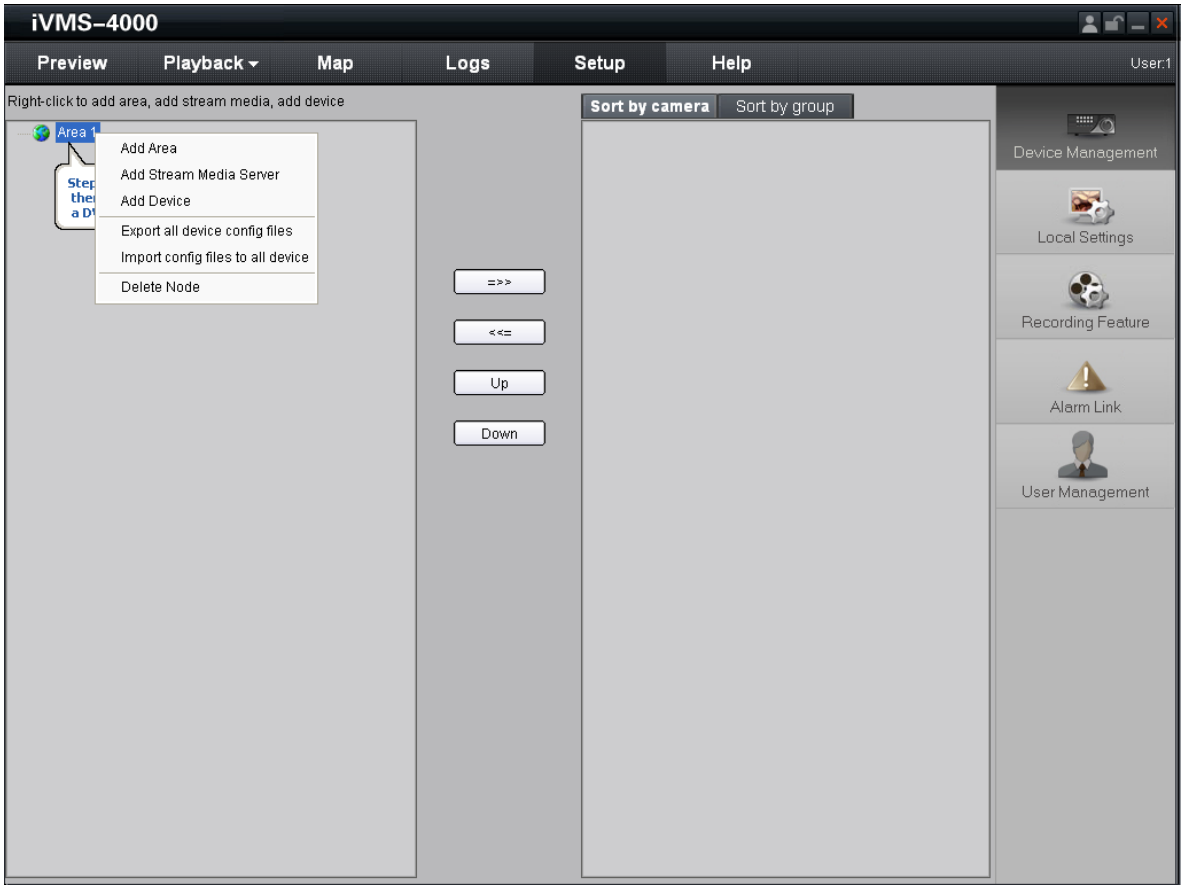


2nd step: According to the hint, right click to add device.





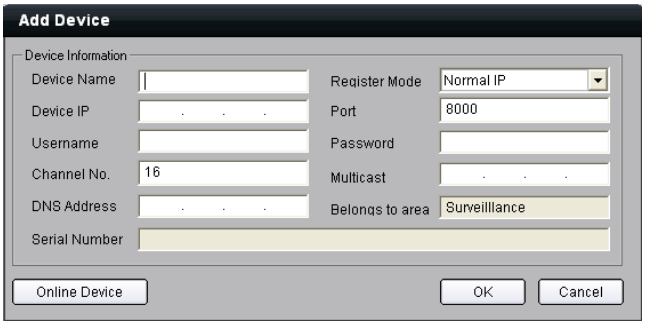
3rd: According to the hint, right click the area name to add the device.



Input device information in the blank of Area device.

Find more @ 4.1.1 Add Device.

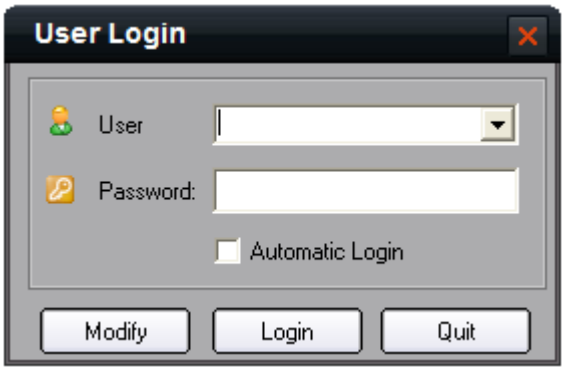
Note: the “Username” and “Password” is the username and password of the device or the iVMS2000.



3.2 User Login

After the administrator registered, when user opens the iVMS software, the login dialog box will pop up, shown as below:

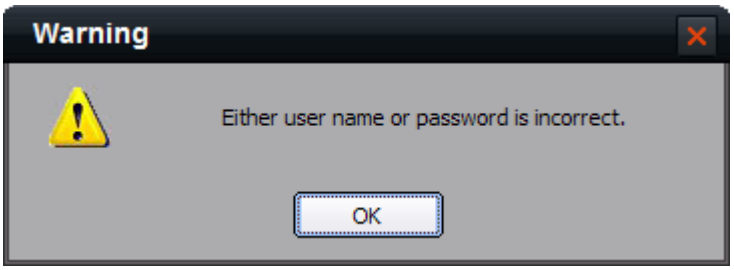
Input user name and password, and then click “Login” to start using the iVMS software.



Click to auto save the user name and password, user does not need to input them when logged in next time.

If user wants to change password, please select a user name and click “Modify”.

If the user name or password is incorrect, the dialog box of warning will pop up, shown as below:

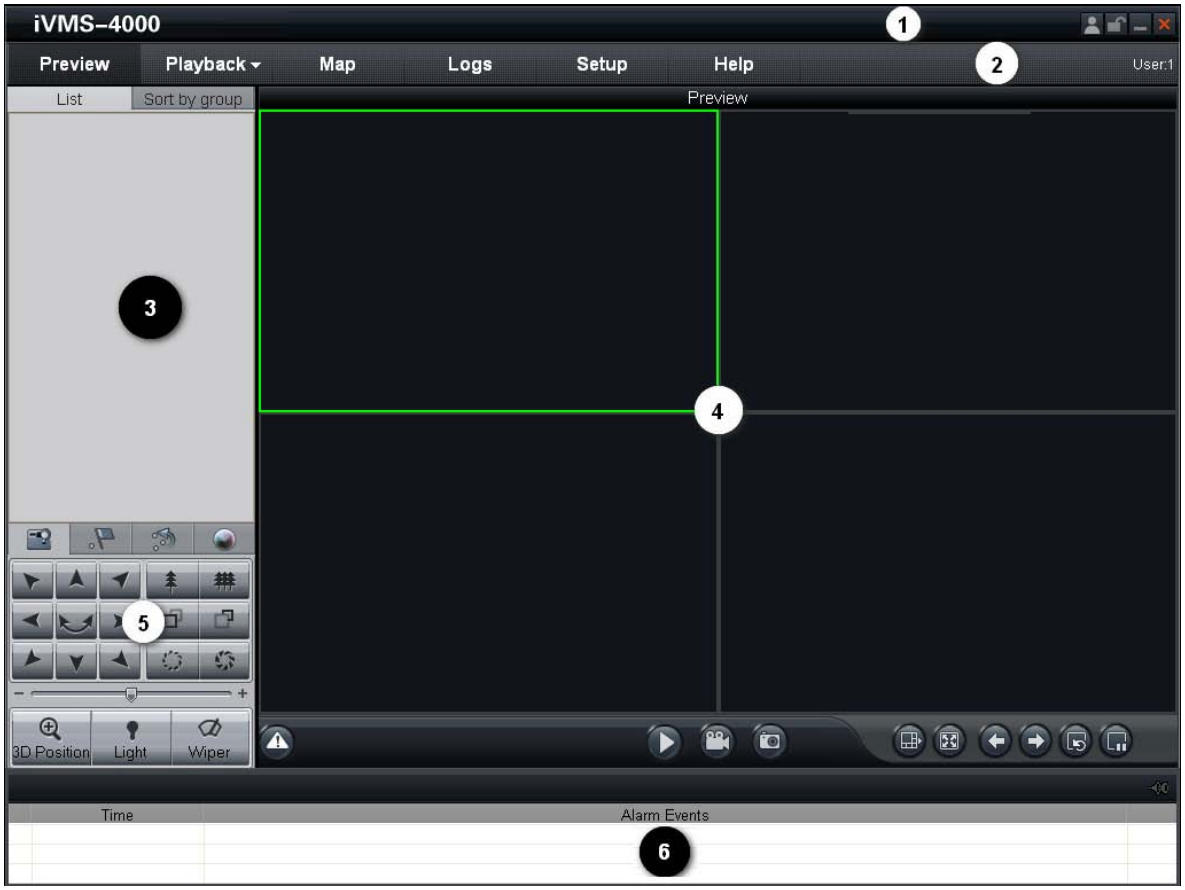


If user wants to cancel login, please click “Quit”.

Note: Please stop all the operations (e.g. preview, recording, playback and etc.) before switching the users.

3.3 GUI Introduction

The GUI window of Client software is shown as below:



No.	Description		No.	Description
1	Title Bar		2	Menu Bar
3	Site Tree		4	View Panels
5	PTZ Control Panel		6	Alarm Info Bar

Title Bar:

Button	Description
	Lock button: click the icon to lock the interface; mouse status shown as ; re-click to activate login window, and input the correct password to unlock the interface.
	Minimize button
	Exit button
	Software user switch button

Minimize the iVMS software and right click the icon " " on the taskbar, then you'll see the popup menu including software/hardware preview, setup, remote VOD, local playback, map, log and exit to choose from.

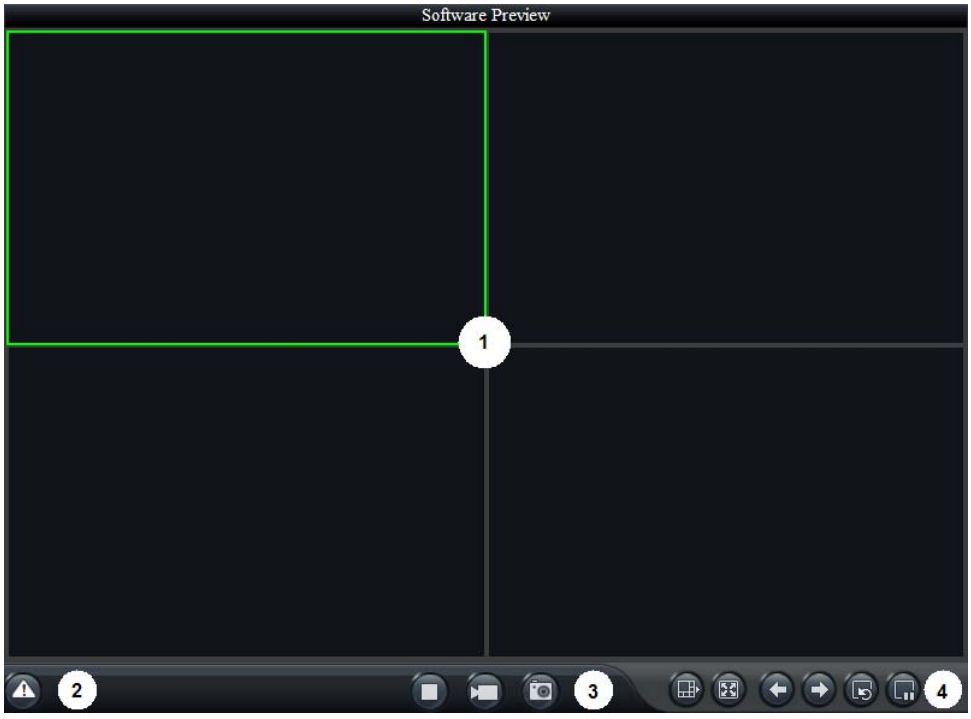
Menu Bar:

Menu	Description
Preview	Enter preview interface (If the decoding card is installed in PC, then enter the software or hardware decoding interface)
Setup	Enter configure interface
Playback	Enter playback interface, including remote VOD and local playback
Log	Enter log query interface
Map	Enter e-map interface
Help	Enter help (user manual) and about (software info)

Site Tree:

Mode	Description
List	Display by list
Sort by group	Display by group

View Panels:



No.	Description		Area	Description
❶	Display windows		❷	Alarm indicator
❸	Basic function		❹	Advanced function

PTZ Control Panel:

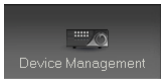
Icon	Options	Description
	PTZ	Control PTZ
	Presets	Configure and call the preset
	Sequence	Configure and call the sequence
	Video	Brightness, contrast, saturation, hue and volume adjustment

Alarm Info Bar:

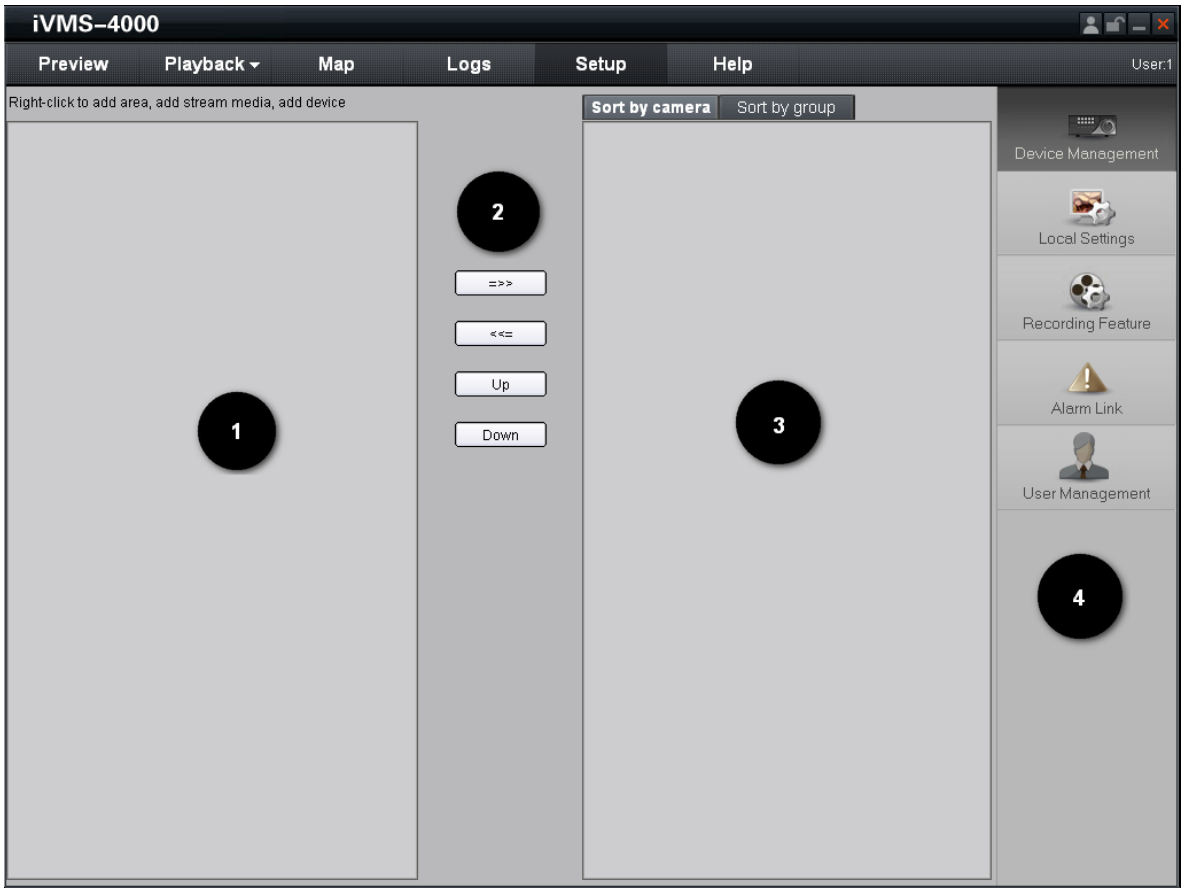
The Alarm Info Bar is used for displaying alarm time, information and alarm information. The area size can be enlarged by dragging the upside of the area. You can fix the area size by clicking icon " " and turns to " ", when it returns to " ", the area size will resume to the original size.

Chapter 4 Device Management

Before any operations, user needs to add device and configure it. Click

to enter the configure mode, and then click 

to manage the device.



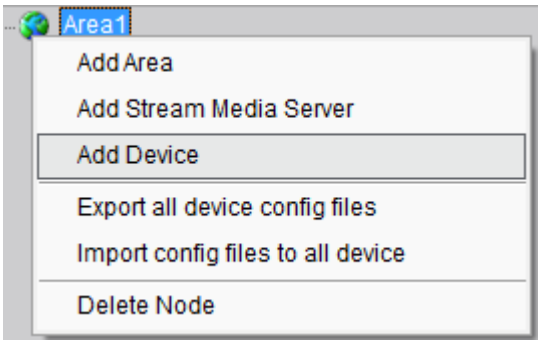
No.	Description		No.	Description
❶	Site Tree		❷	Configuration Buttons
❸	Group/Short key Area		❹	Navigation Bar

4.1 Site Tree Configuration

The Site Tree is empty when the iVMS software runs for the first time. By right clicking this area, you can choose to add area.

Input a name in the text box of Area Name; if there is no upper area added, the text box of Upper Area Name is not enabled.

After area is added, right click the area name and then the sub-menu will pop up, shown as figure below. Select “Add Area”, you can add sub area, select “Delete Node”, you can delete the area.



Note: Enter, Space and TAB are invalid in the area name. The name cannot be null and should not contain the following characters, including “**%**” and “**’**”.

Note: Up to 50 areas can be added.

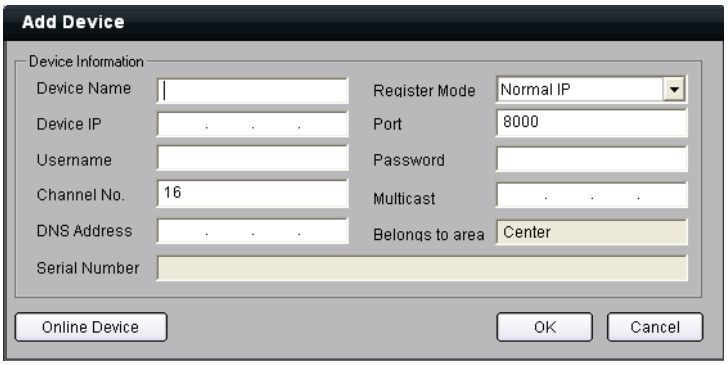
Note: When you select “Delete Nod”, the sub areas, stream media servers, and devices under the root of this area will be deleted as well. Before doing that, you need to stop preview or record, otherwise there will be warning information popping up.

4.2 Add Device

Right click the area and select “Add Device”; the sub menu will pop up. Select different register mode to add device, according to your fact.

Normal IP mode

The default register mode is the “Normal IP”. After inputting the IP address, username, password, port and channel No., click the “OK” button to finish adding device.

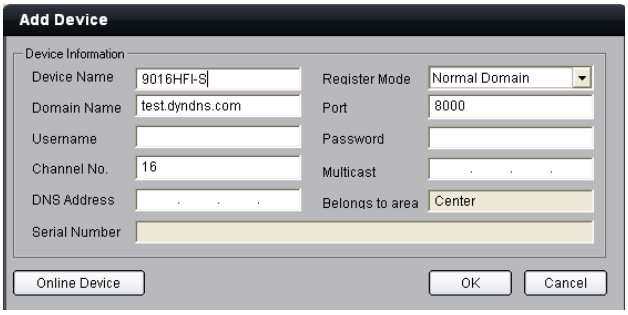


The Illustration about the adding interface:

Options	Description
Device Name	User-defined
Register Mode	Normal IP, Private Domain, Normal Domain
Device IP	IP address of the device
Port	Device port (default: 8000)
User Name	User name of the device (default: admin)
Password	Password of the device (default: 12345)
Channel No.	The channel number of the device(1-64)
Multicast	Used when visiting the device by the way of multicast, or else leave it blank
DNS Address	Used as IP address of IP server when adopting private domain, or else leave it blank
Device serial	Used only when adopting private domain, it can't be input under other mode

Normal Domain mode

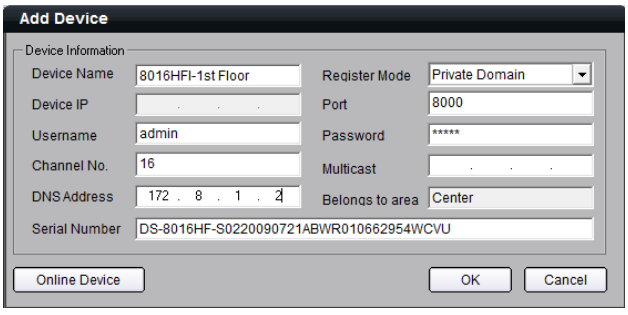
If you select normal domain, please fill in the text box of domain name with the registered domain name.



Private domain: If you configure the device with the address of IP Server that runs normally, then the connected device can be resolved by IP Server; and iVMS software can get the dynamic IP address from IP Server by server name or serial number.

Private Domain mode

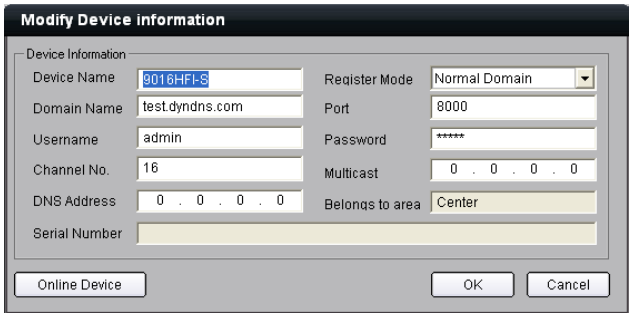
If you select the private domain, please input the correct device serial number and IP address of IP server in the DNS Address text box.



Note: When adopting private domain, if you input the device serial number, the iVMS software will obtain the IP address from IP server; If not, the IP address can be obtained by using device name to resolve IP server, i.e. in that case, the device name here should be the same with the one in the device.

Click OK to finish adding device.

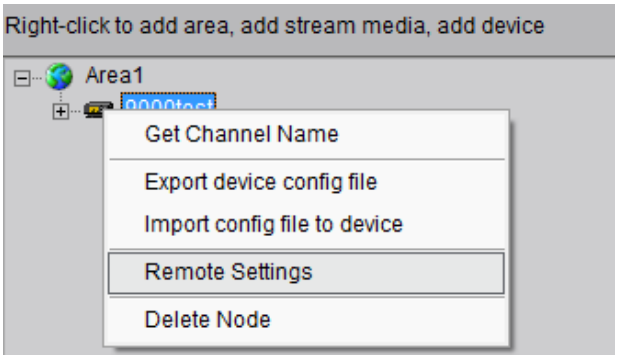
Right-click menu is available, double click the node can modify the device parameters.



Note: Up to 50 devices can be added.

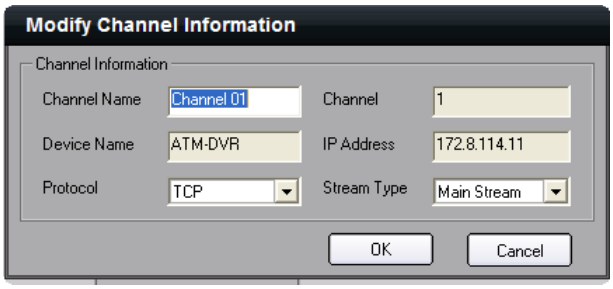
4.3 Channel Configuration

Click “Get Channel Name” to get the names of all channels.



Tips: The main stream is used for device encoding; the sub stream is for network transmission.

Double click the channel name and the “Modify Channel Information” dialog box will pop up.



Channel Name	Current channel name that can be changed.
Channel	Channel number of the device, unchangeable
Device Name	Device name that unchangeable
IP Address	Device IP address that unchangeable
Protocol	Select connection protocol: TCP, UTP, MCAST and RTP.
Stream Type	Choose main or sub stream for the channel

Note: The channel name will be replaced with the name saved in the device when the option “Get channel name” is selected.

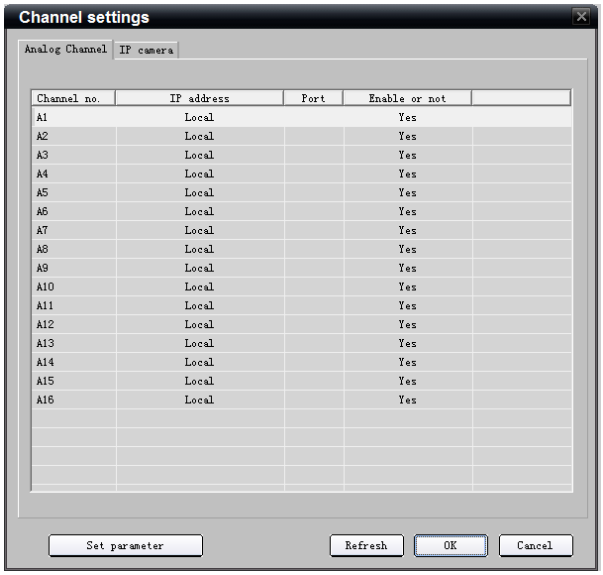
4.4 Channel Configuration of DS-9000 series DVR

If the DS-9000 series DVR is added to iVMS software, then the IP channel management and enable or disable analog channel functions are available.

Right click the device name and select “Remote Configuration”, then the “Channel Configure” menu will pop up. The “Analog Camera” will show by default.

Double click the selected analog channel to enable or disable it.

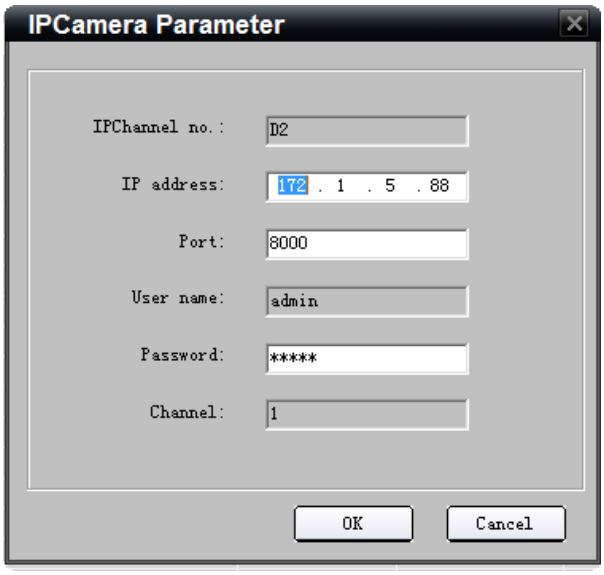
Note: DS-9000 series DVR cannot preview and record this channel after it is disabled, unless it is enabled again.



Click “IP camera” to enter the interface of IP channel management.

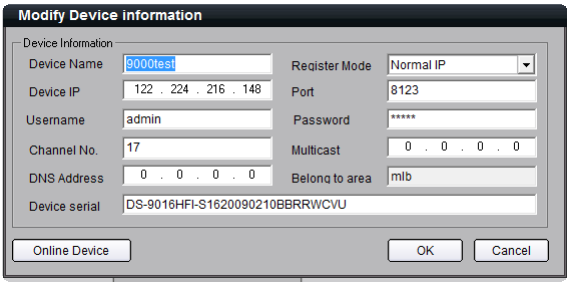
Click “Add” to add IP channel.

Input the IP address, user name, password and port, and then click “OK”.



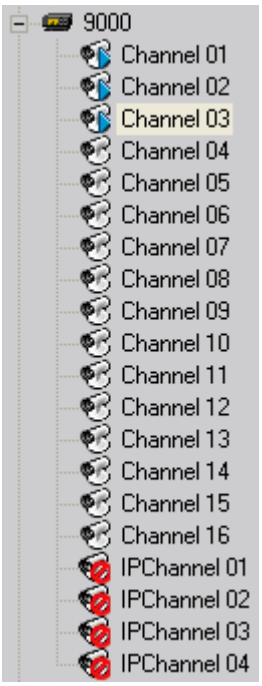
Double click the selected channel to modify the parameters.

Click “Delete” to delete the selected channel.



After that, you can change the channel number according to the added channels. Double click the device name to modify the device information.

Note: DS-9016HFI DVR max supports adding 16 analog channels, 8-ch IP Camera, please refer to the *User Manual of DS-9016HFI-S* for more details.



After that, the added IP channel will be seen in the channel list of the device.

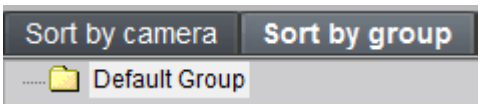
If IP channel cannot be connected, the icon will be shown as

4.5 Group Configuration

Click the Sort by group button to enter group area management window.

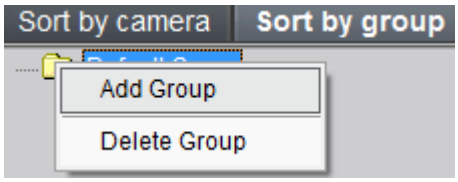
4.5.1 Sort by group

There is the default group. You can add channels in it or delete it.

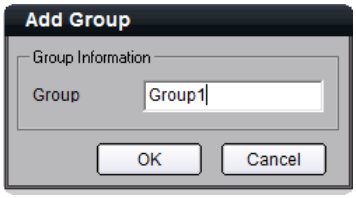


Right click in the empty area and you will see sub menu as shown on the right.

Select “Add Group”.

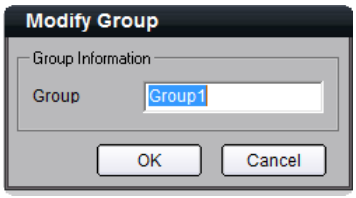


Input the group name and click “OK”.



Double click the group name to change the group name.

Right click the group name and select “Delete Group” to delete the selected group.



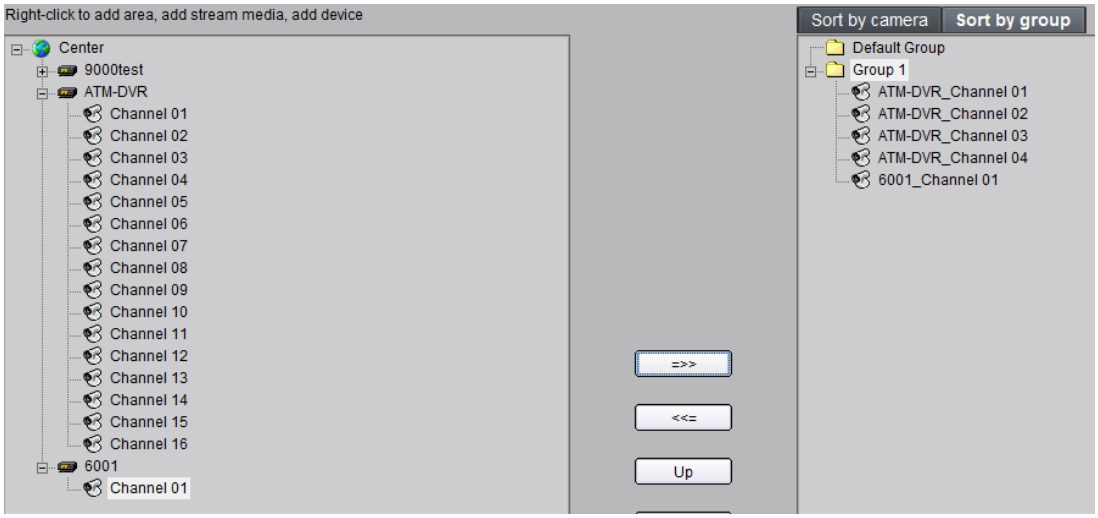
Note: Enter, Space and TAB are invalid in the group name. The name cannot be null and should not contain the characters including “**%**” and “**’**”.

4.5.2 Channel

After adding the group, the channels in the site tree can be dragged to the selected group.

Channel Add

Select the channel from the site tree, and click =>> key and drag it to the selected group. The type of channel name in the group area is as “device name_channel name of the list area”.



Select the device in the site tree and click

key, then all the channels of the device can be dragged to the selected group.

Use

and

keys to adjust the channel sequence in the group list.

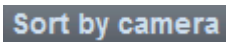
Channel delete

Use

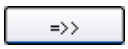
key to delete the channel or group in the group area

Note: One channel can be added to one group for only once. Different groups can contain the same channel. A maximum of 50 channels can be added to one group.

4.6 Sort by Camera

Click 

button to enter short key management window. Only the channels can be added to the sort by camera area.

Select the channel from the site tree, and click 

key and drag it to the *Sort by camera* area. The type of channel name in the group area is displayed as “device name_channel name of the list area”.

Select the device from the site tree, and click

key to add all the channels of the device to the *Sort by camera* area.

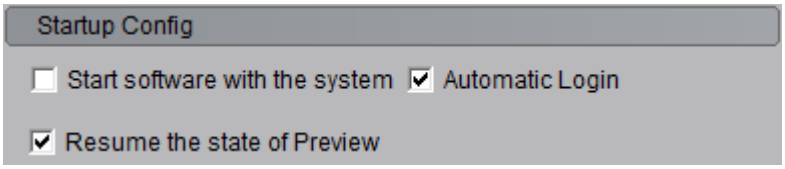
Use

key to delete the channel under the *Sort by camera* area

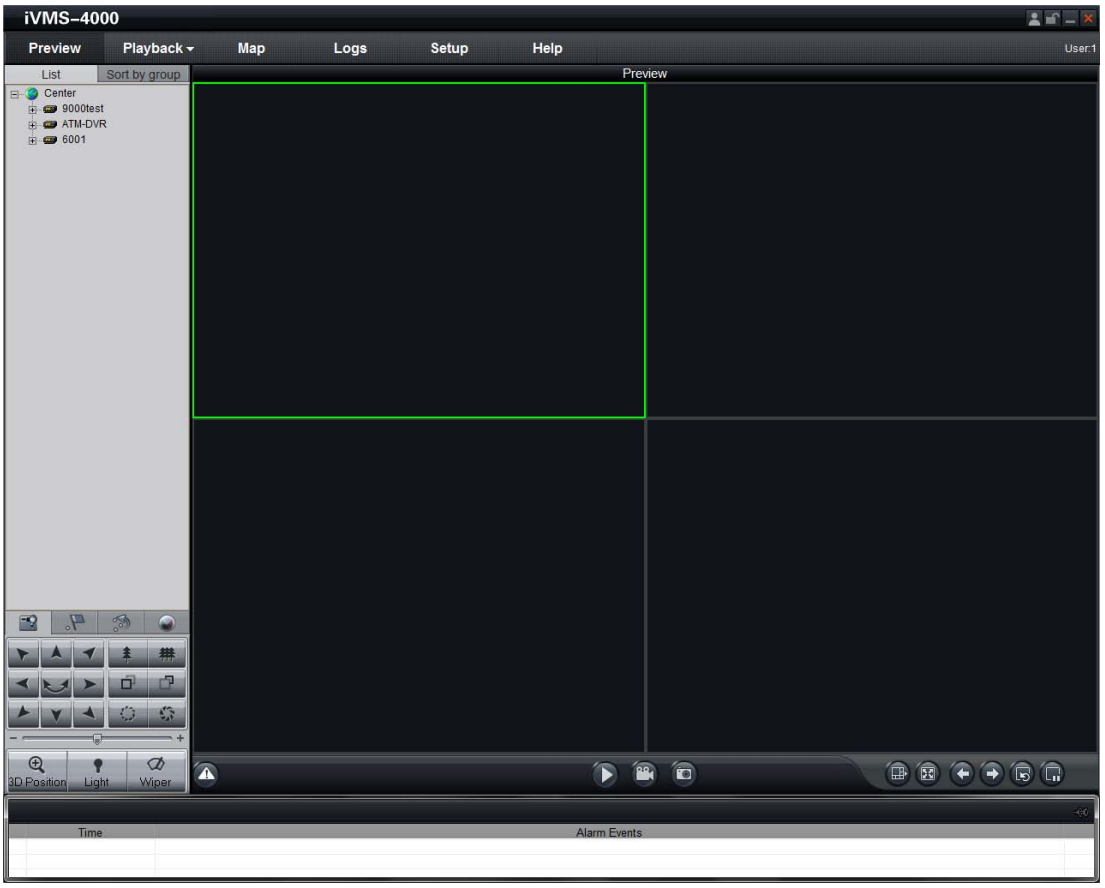
Chapter 5 Preview

After configuring the device, double click the Preview key to return to the preview interface. Click the “List” and “Group” keys to switch between two modes.

Click Setup key and then Local Settings key and Advanced button to enter “Advanced Configuration” and enable Resume the state of Preview option to save current preview state including window division and preview channel for next login.



The view windows are divided into 2×2 display mode. And up to 64 window divisions are supported.



Description of Preview Panel Buttons:

Button	Description		Button	Description
	Play			Record
	Capture			Window division

	Multi-screen			Previous/Next page
	Resume cycling all the device			Stop cycling all the device

Note: The window division and channel sequence can be saved by the Client Software after exit, and it will automatically restore when user logs on next time.

5.1 Non-cycle Preview

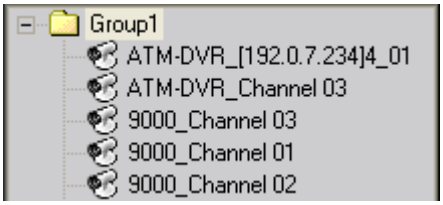
5.1.1 Play by Node

Double click the device name or drag it to the view window to access video preview (not enable cycle preview)

Double click the channel name to preview the corresponding cameras

Double click the device name to preview the corresponding cameras of the device in the current window divisions.

Double click the group name to preview the corresponding cameras of the group in the current window divisions.



You can also preview them by dragging them to the play windows.

The play window shows as the figure on the right.

5.1.2 Sort by camera Preview

Sort by camera mode

In the device list mode if the sort by camera has been configured, press "" button of the preview interface to view all the corresponding channels in the sort by camera area in the current window divisions. If the channel number is

larger than the window division number, user can click and to change the page to preview. Find more @ 4.6 Sort by camera Configuration

Sort by group mode

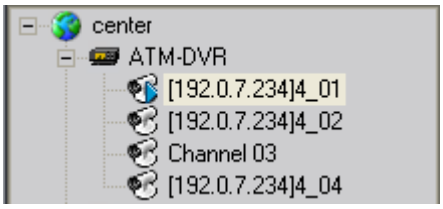
Click the "Sort by group" to go to this mode, if the sort by group has been configured, then press "" button of the preview interface to view all the corresponding channels in the sort by camera area in the current window divisions. If the channel number is larger than the window division number, user can click and to change the page to preview. Find more @ 4.5 Sort by group Configuration

5.1.3 Stop Playing

There are 3 ways to stop live preview.

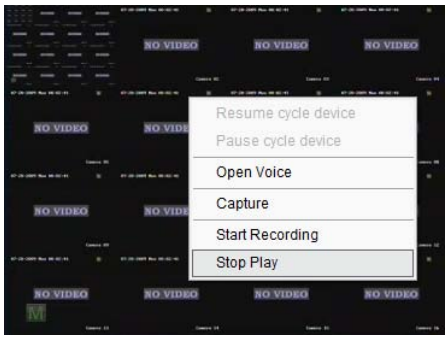
Double click the channel to stop playing.

The play icon is, double click it to stop previewing this channel and the icon will become



Right click video to stop playing

Right click in the play window and the play menu will pop up. Click "Stop Play" and the live view will stop. Meanwhile the play icon will become



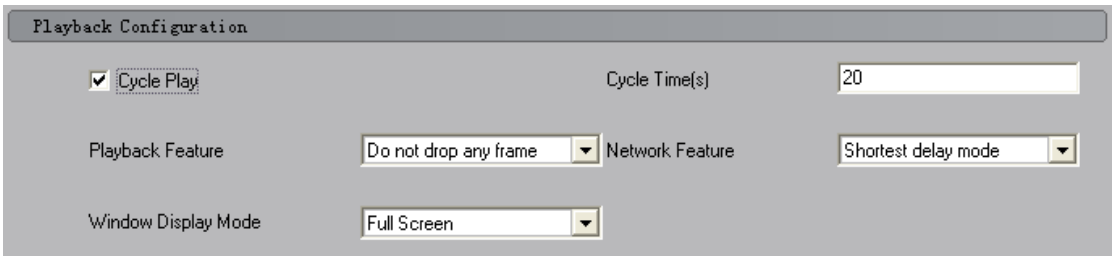
Stop all playing

Click the key in the preview panel to stop all the live view channels.

5.2 Cycle Play

5.2.1 Cycle Configuration

Click Setup key to enter the configuration interface. Then enter the local configuration by click "Software Configuration" key.



Enable Cycle:

Click to enable cycle play, and input the cycle time, then press "Save" and return to preview interface.

Note: Cycle time should be between 20 and 300s.

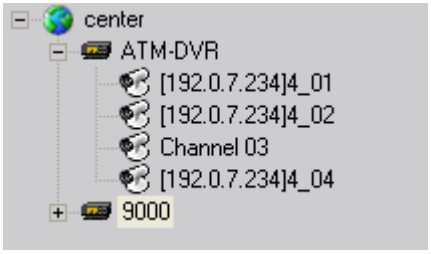
Disable Cycle:

Click to disable cycle play and save.

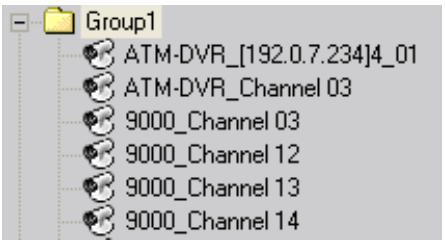
5.2.2 Cycle Play of Device/Group

Start cycle

Double click the device name and all the channels of the device begin to cycle in the selected window division from the 1st channel.



Double click the group name and all the channels of the group begin to cycle in the selected window division from the 1st channel.



Drag the node of the device to the window, and then all the channels of this device begin to cycle.

Drag the node of the group to the window, and then all the channels of this group begin to cycle.

Pause/Resume Cycle

If the current window is in the device/group cycle mode, right click the cycling window, click “Pause cycle device” or “Stop cycle group” to pause cycling and remain the current image.

Click “Pause cycle” key to pause all the cycling window divisions.

If the current window is in the device/group cycle mode, right click the paused window, click “Resume cycle device” to restart cycling.

Click “Resume cycle devices” key to restart all the paused channels.

5.2.3 Mixed Cycle

Mixed cycle mode enables iVMS software cycle previews channels of the group or sort by camera, the default window division is 2×2.

Cycle Play of Sort by camera Channels

Click “List” key to display channel list.

Click key to start mixed cycle play. Take 2×2 window division for example, if there are 8 channels in the short key area, then start cycle playing, the first 4 channels will be displayed in the window, after one cycle period, the last 4 channels will be displayed in the window.

Click button in the preview panel to stop the channel mixed cycle of short key.

Click key to display the first 4 channels, click key to display the last 4 channels.

Note: Click button or to pause the channel sequence cycle of sort by camera. This function needs sort by camera configuration first.

Cycle Play of Group Channels

Click “Sort by group” key to display group channel list. (Please stop playing before switching to group channels.)

Click key to start mixed cycle play. Take 2×2 window division for example, if there are 2 groups in sort by group

area, each of them has 4 channels, then start cycle playing, 4 channels of the first group will be displayed in the window, after one cycle period, 4 channels of the second group will be displayed in the window.

Click key to display the first 4 channels, click key to display the last 4 channels.

Note: Click button or to pause the channel sequence cycle of sort by group. This function needs sort by group configuration first.

5.3 Preview Control

Full Screen:

When previewing, click key to preview in full screen, to exit click key.

Enlarge:

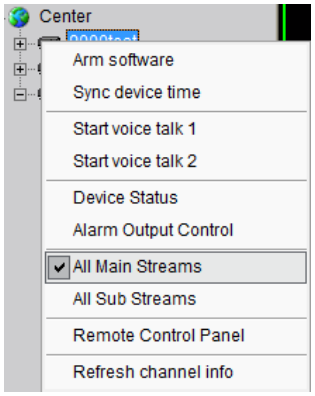
When in the multi-screen preview mode, double click the selected image to enlarge it, double click again to resume.

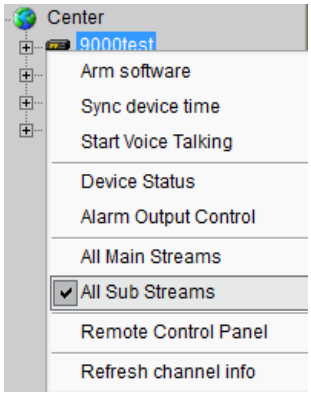
Main/Sub Stream:

Main stream is for recording, sub stream is for network transmission when bandwidth is low. The stream will take effect after re-preview the device or channels.

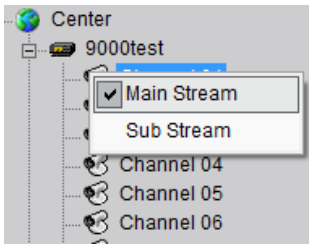
Software use the main stream by default, if needed, user can switch to sub stream to preview.

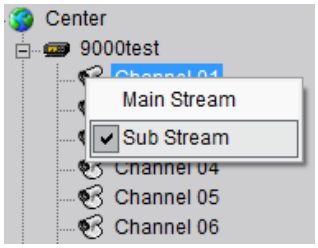
Right click device name and select “All Main Streams” or “All Sub Streams” to change the device





Right click channel name and select “All Main Streams” or “All Sub Streams” to change the channel stream type.

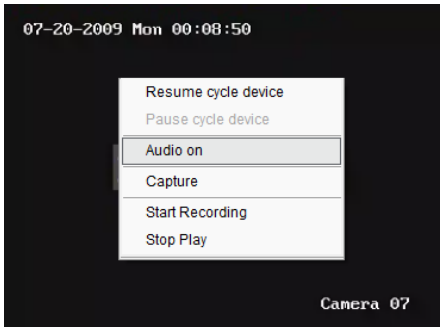




Note: the sub stream preview needs the device to support, or else the sub stream preview will be failed.

Voice Control

Right click the selected window, select “Audio on” to enable audio preview, right click again and select “Close Voice” to disable audio preview.

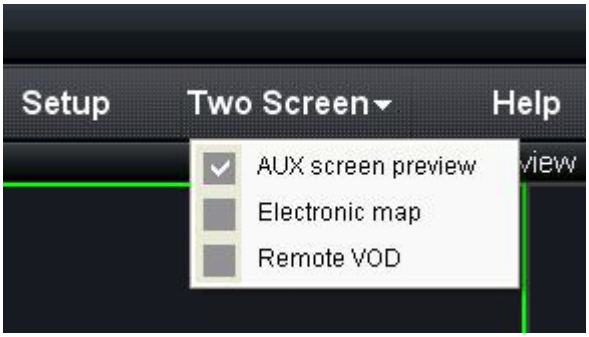


Note: The software only can open voice of one window at the same time. If the voice of the next window is opened then the voice of the previous will be closed automatically.

5.4 Two Screen Preview

If the computer has connected with two monitors which have been turned on, then there will be Two Screen button on the top of it.

Click this button, pop up the drop-down menu, including ”AUX screen preview”, ”Electronic map” and ”Remote VOD”



Click “AUX screen preview”, the second monitor will display the preview window.

The aux screen operation is the same as the main screen, refer to the former chapters.

Note: when the main screen is in the 64-division display mode, the aux screen can’t be opened. When the aux screen is opened, they both support up to 32 window divisions.

5.5 Recording & Capture

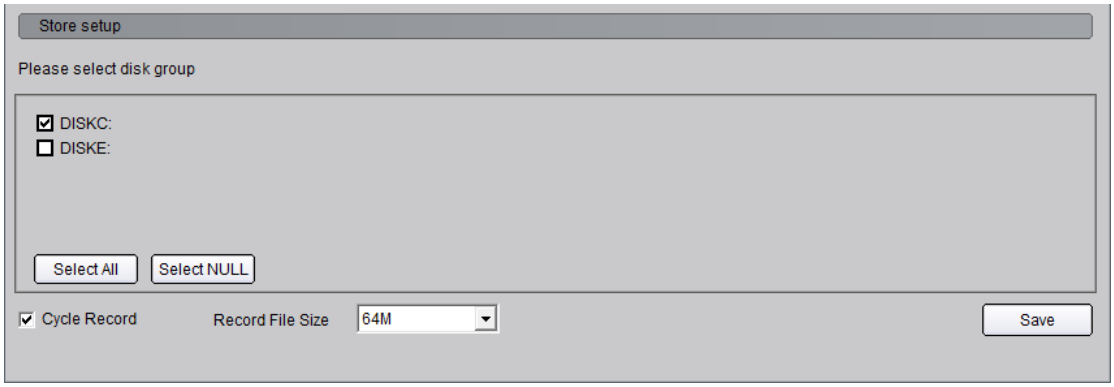
Recording and capture is only available in the live view mode.

Note: If the channel is in the recording mode, click “Stop” button to stop recording, and the preview, cycle play are stopped as well.

5.5.1 Recording

Record disk configuration

Configuration Path: Setup → Recording Feature → Local Recording Setup



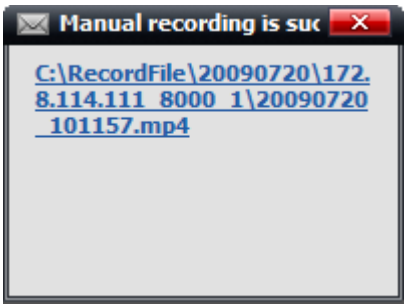
Select the saving hard disk of recorded files in “Store setup”.

Immediate record

When previewing, click key to start recording, and the icon becomes as. The channel icon becomes as.

Click button to stop recording.

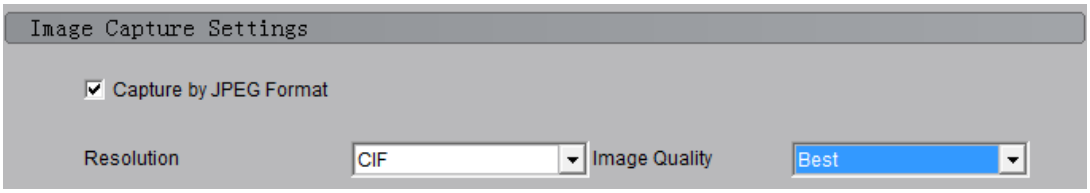
After recording, the hint window with index of recorded files will pop up; click the hint to open the target folder.



5.5.2 Capture

Configuration Path: Setup → Local Settings

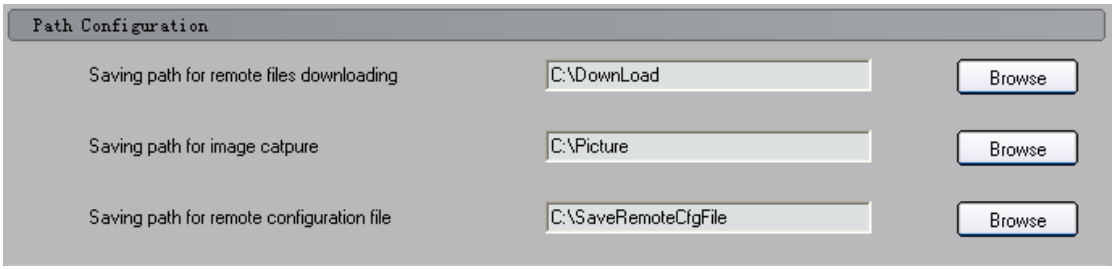
Image format configuration



Format	Selection	Instruction
JPEG	☑	Resolution and image quality can be changed.
BMP	☐	Resolution and image quality can't be changed, capture depending on current channel parameter

Path configuration

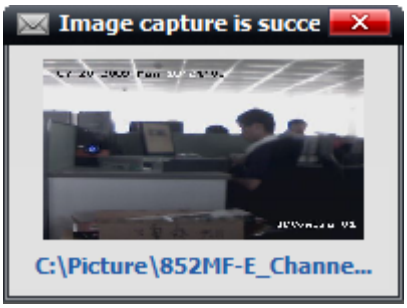
Default saving path: C:\Picture, click key to change the saving path.



Capture

In live preview mode, click key to start image capture.

After capture, the hint window with capture index will pop up; click the hint to open the target folder.



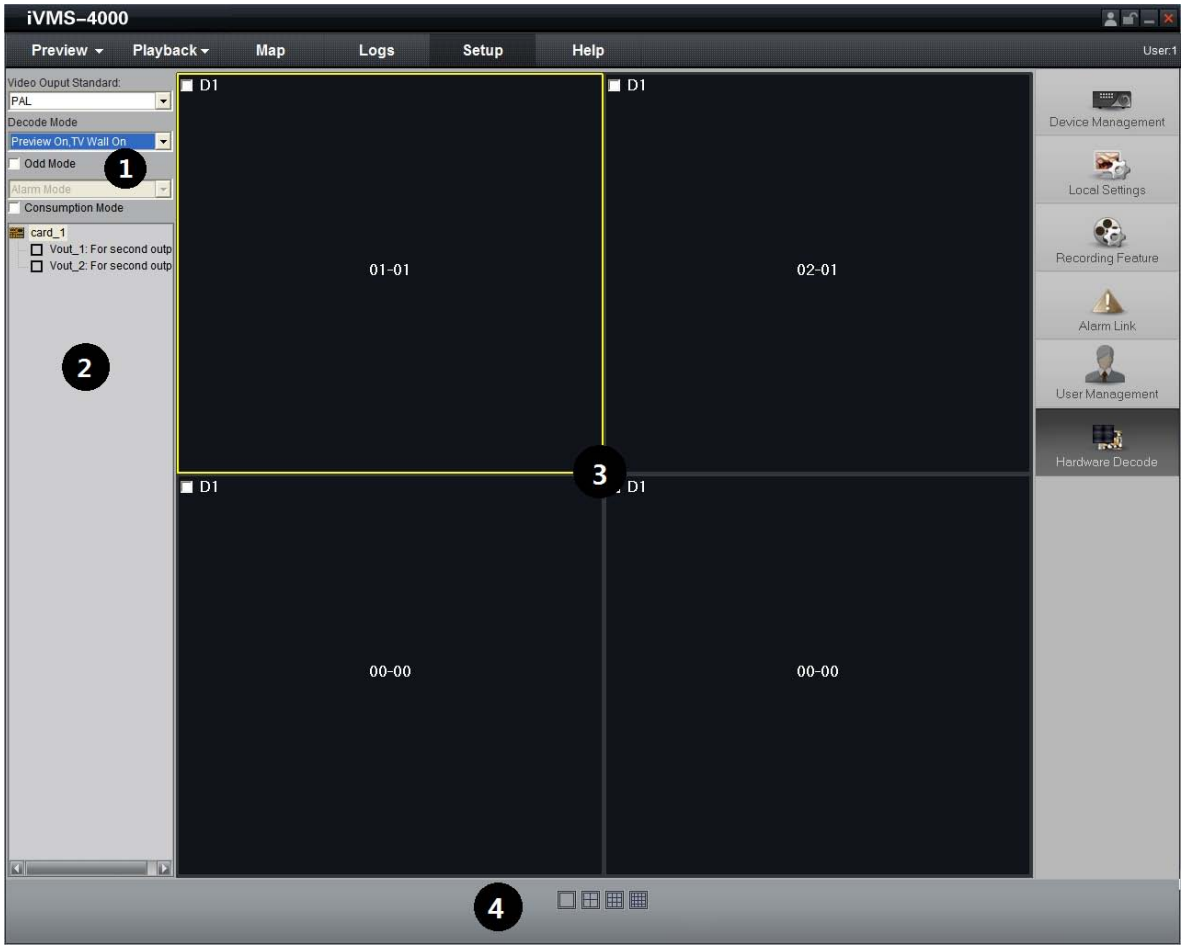
Note: If user is connecting to the iVMS-2000, software just support the capture of BMP format. If user selected the JPEG format, it will prompt capture failed.

5.6 Hardware Decode

If there is video/audio decoding card installed in the computer, then this function can be available.

5.6.1 Hardware Decode Configuration

Click Setup key and then Hardware Decode on the right to enter the configuration interface.



The area descriptions are as follows:

Area	Instruction
❶	Configuration Area: Video Output Standard, Decode Mode, Odd mode and Consumption Mode.
❷	Decoding Card Info Area: Show the information of the decoding cards and channels.
❸	Output Window Area: Configure the output mode of decoding channels.
❹	Window Division Mode Select Area: Select window division mode.

5.6.2 Hardware Decode Mode Configuration

Before the previewing operation, user can configure the hardware decode as needed.

Option	Descriptions
Output standard	PAL & NTSC optional
Hardware preview mode	”Factory default”, ”Preview On, TV Wall On” and ”Preview Off, TV Wall On”.
Odd	If enable, user can set the alarm link trigger pop up image on TZV Wall.
Consumption Mode	If enable consumption mode, the MDI card can decode the stream of 8100 and 9000 series DVR.

Note:

The video output mode of images from device and TV wall need to be the same standard, or else the image will become abnormal.

If enable ODD mode, and click ”Setup”→ ”Alarm link” to set the alarm link type “Pop up image when alarm occurs”, the iVMS software will output the video through 4000MDI card on TV wall when there is alarm.

If enable the Consumption and D1 option, the decode ability of the MDI card will reduce by half.

Hardware Decode Mode	Descriptions
Default Configuration	Each 4002MDI card decodes 2 channels; each 4004MDI card decodes 4 channels and so on. Support decoding and cycling play.
TV wall on & Preview on	The images from the play window of iVMS software and TV wall are decoded by MDI card, which needs to configure in the hardware decode configuration.
TV wall on & Preview off	The images from the TV wall are decoded by MDI card; the images from the play window of iVMS software are decoded by CPU.

If the resolution of all the images is CIF, then the max decoding channel number is: 4 channels for each 4002MD card; 8 channels for 4004MD card.

If the resolution of all the images is D1, and the consumption mode enable, then the max decoding channel number is: 2 channels for each 4002MD card; 4 channels for 4004MD card.

If the resolution of all the images is D1, and the consumption mode not enable, then the max decoding channel number is: 1 channels for each 4002MD card; 2 channels for 4004MD card.

Tips: do not output more than 4-ch CIF or 2-ch D1 from the 4002MDI card, and do not output more than 8-ch CIF or 4-ch D1 from the 4004MDI card.

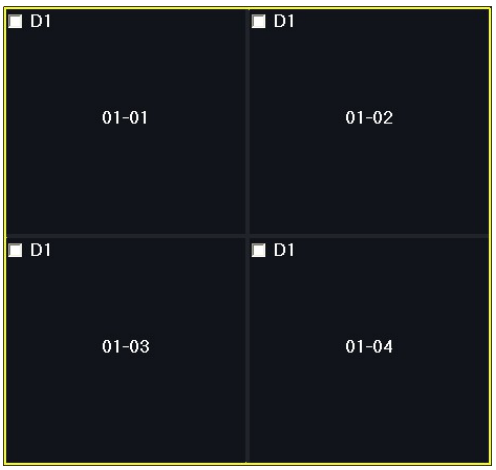
5.6.3 Hardware Decode Output Window Configuration

The “output window panel” has a multi-window division according to the total MDI card BNC number. Each window is related to one BNC.

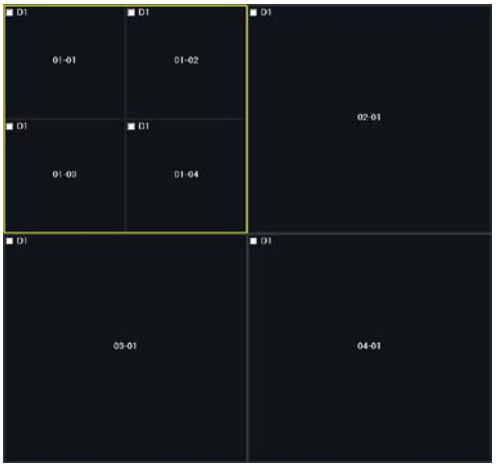
Take one 4004MDI card for example, if there are 4 BNCs, then the “output window panel” will display 4 windows divisions. Window is named as 01-01, 02-01, 03-01 and 04-01.

Select one window on “output window panel” and click window division button to select a window division on this BNC.

For example, if we select the first window 01-01 to be divided into 4 windows, then the 4 windows will be named as 01-01, 01-02, 01-03, and 01-04.



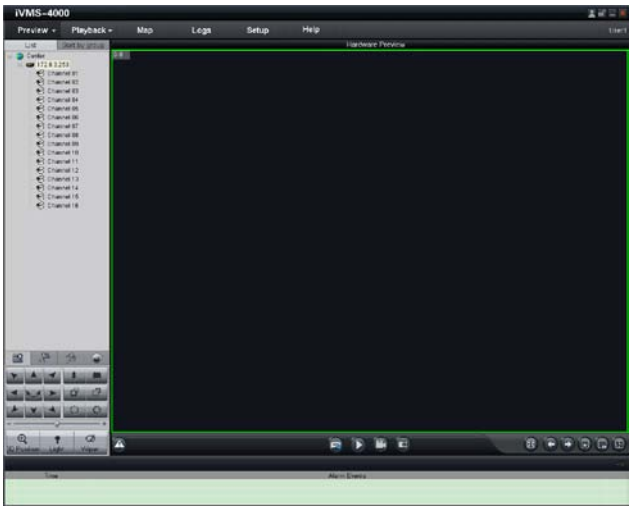
Tick the check box on each window to set the channel decode D1 resolution stream.



Note: If the default mode is selected, then each decoding channel outputs one single image and the division mode is invalid.

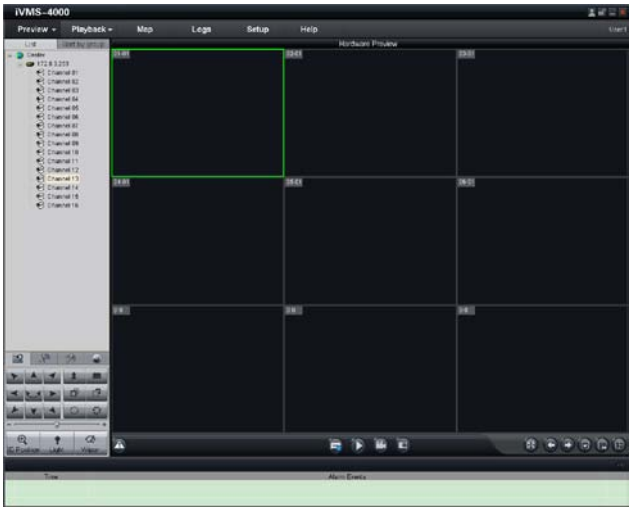
5.6.4 Hardware Preview

After configuration, click “Preview” key and select “Hardware Preview” to enter the hardware decode interface.



Click to start decoding, at the moment, preview display mode will switch to which is set in “output window panel”.

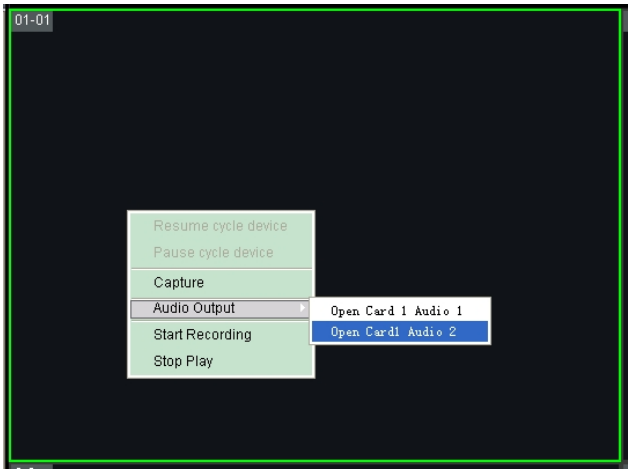
The window beyond the maximum decoding channel will not be displayed.



The basic operations of hardware preview are the same with software decode, please refer to sections 5.1-5.5 for more details.

By right clicking the decoding video window division, user can select the audio output channel of the hard decoding card.

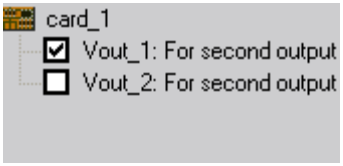
For example, the 4004MDI card, it can decode 8-ch CIF video, the first 4 channels' audio output can select "Open Card 1 Audio 1" and "Open Card 1 Audio 2", and the last 4 channels' audio output can select Open Card 1 Audio 3" and "Open Card 1 Audio 4".



5.6.5 Secondary Output of Hardware Decode

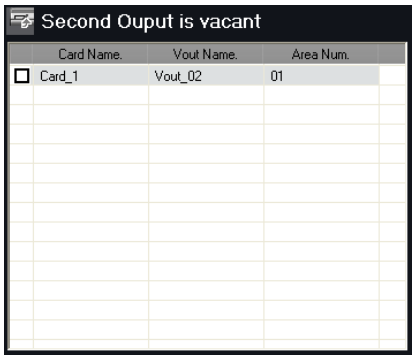
MD card can output the decoded images twice. Take 4002MD card for example, one 4002MD card can decode 4 channels CIF images, assume they are channel01, channel02, channel03, and channel04; if one decoding channel is set as 4 divisions and separately display channel01, channel02, channel03, and channel04, then the other decoding channel can only support one division and select one decoding channel to output the image. The descriptions above are defined as secondary output.

Enter hardware decode configuration interface, and tick the channel that set as secondary output and the channel status will become ☑



Click in the window division to display secondary output list.

Note: The system will clear the previous configuration information of the secondary output channel.

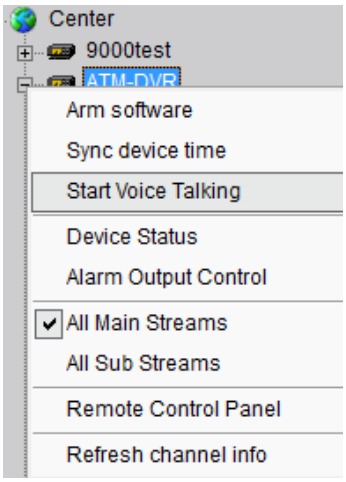


5.7 Others

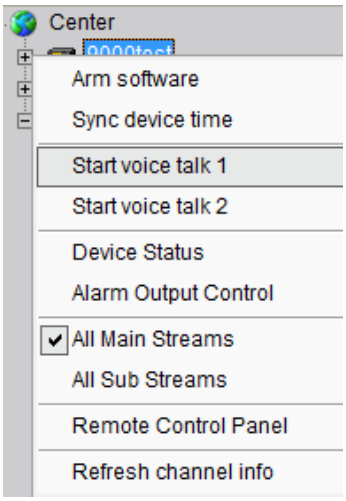
5.7.1 Voice Talk & Broadcast

In preview interface, right click the device name and the sub menu will pop up.

Click “Start Voice Talking” to talk with the selected device.



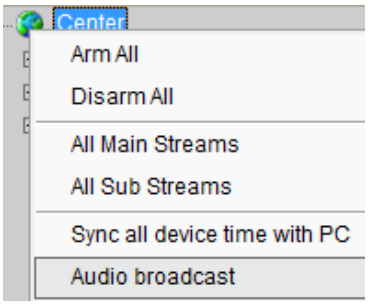
If the device is 9000 DVR, then there will be two voice talk channels for choice.

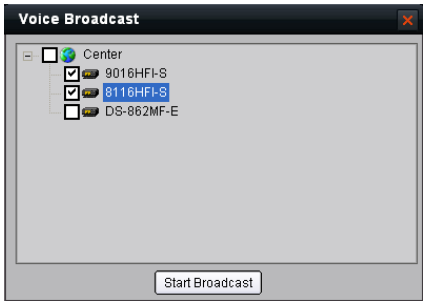


Note: Client software only supports one voice talk at the same time

5.7.2Audio broadcast

Right click the area name and select “Audio Broadcast” to talk to the area.

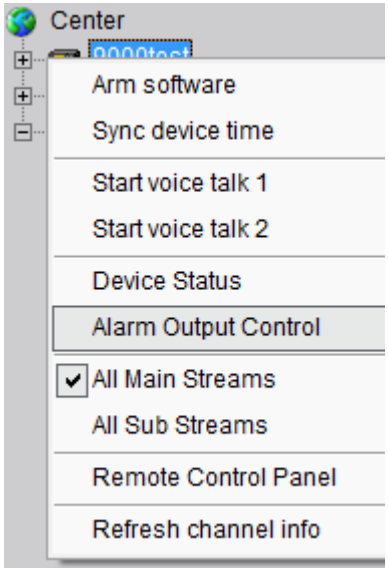




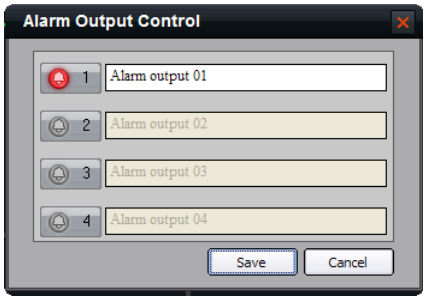
5.7.3 Alarm Output Control

Right click the device name and the sub menu will pop up.

Select “Alarm Output Control” to turn on or off the alarm output, and define alarm output name.



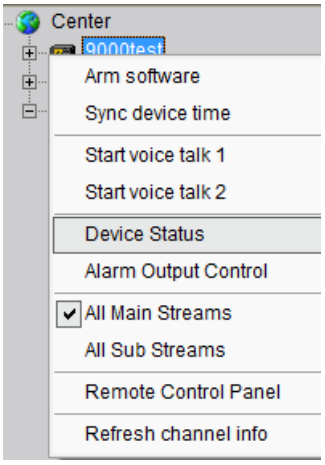
Click 1 and it becomes 1 key, so as to turn on the alarm output and activate the name modified function, re-click 1 key to turn off the alarm output.

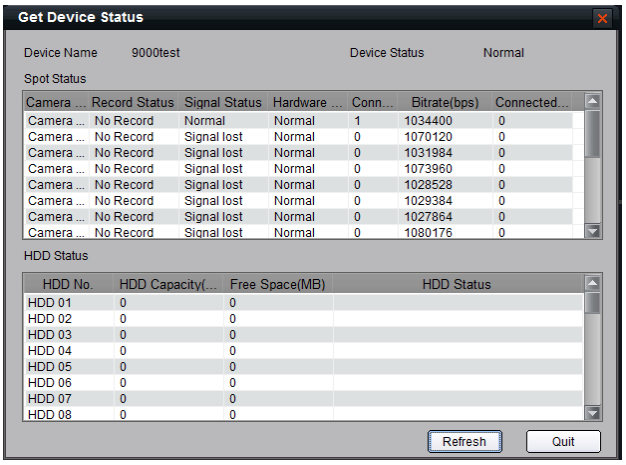


Note: if the device type is iVMS-2000, the Alarm Output Control is not available.

5.7.4 Device Status

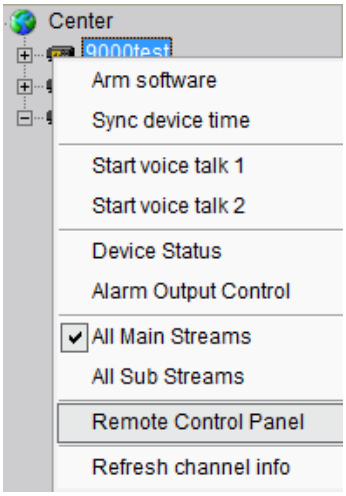
Right click the device name and the sub menu will pop up. Click “Device Status” to get device working information, including channel and hard disk status.




Get Device Status
Device Name 9000test
Device Status Normal
Spot Status
Camera ... Record Status Signal Status Hardware ... Conn... Bitrate(bps) Connected...
Camera ... No Record Normal Normal 1 1034400 0
Camera ... No Record Signal lost Normal 0 1070120 0
Camera ... No Record Signal lost Normal 0 1031984 0
Camera ... No Record Signal lost Normal 0 1073960 0
Camera ... No Record Signal lost Normal 0 1028528 0
Camera ... No Record Signal lost Normal 0 1029384 0
Camera ... No Record Signal lost Normal 0 1027864 0
Camera ... No Record Signal lost Normal 0 1080176 0
HDD Status
HDD No. HDD Capacity(... Free Space(MB) HDD Status
HDD 01 0 0
HDD 02 0 0
HDD 03 0 0
HDD 04 0 0
HDD 05 0 0
HDD 06 0 0
HDD 07 0 0
HDD 08 0 0
Refresh
Quit

Note: if the device type is iVMS-2000, the Device Status is not available.

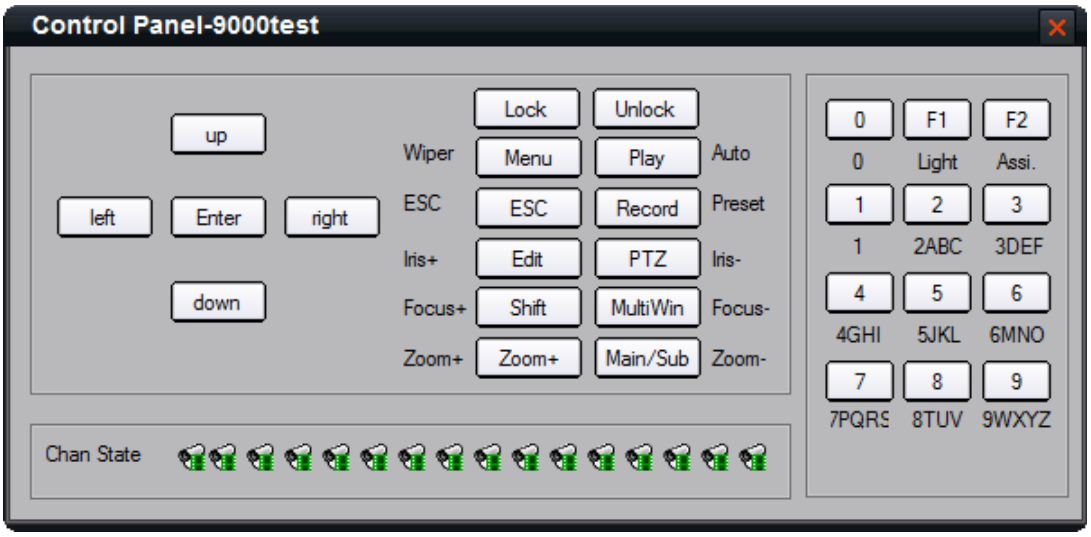
5.7.5 Remote Control Panel



Right click the device name and the sub menu will pop up.

Select “Remote Control Panel” and the control panel will pop up shown as figure below.

You can click the buttons on the panel and control device like using front panel.



Note: if the device type is iVMS-2000, the Remote Control Panel is not available.

Chapter 6 PTZ Control

6.1 RS-485 Parameters Configuration

Before PRTZ operations, please make sure that RS-485 parameters has been correctly configured by iVMS software.

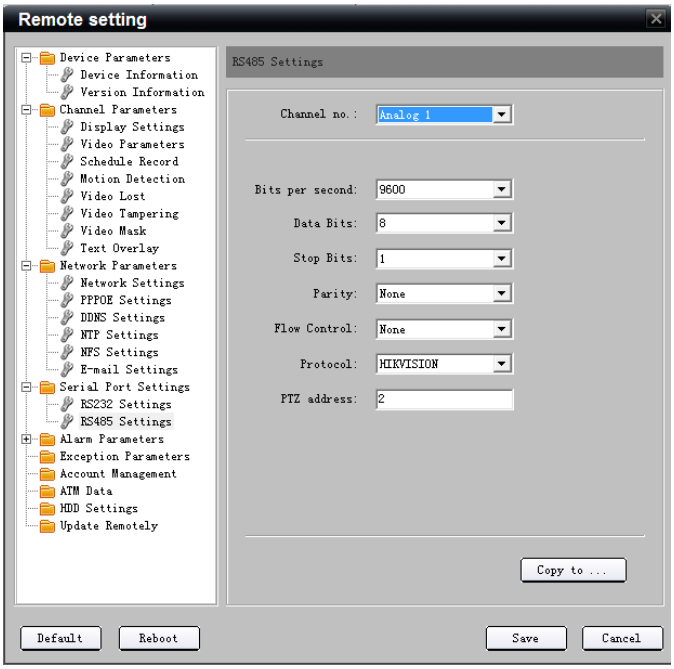
Click “Setup” and enter the corresponding interface.

Right click the device name and select “Remote Configuration” from the sub menu.

Click Serial Port Settings to unfold the options, shown as figure on the right.

Set parameters for each channel.

Note: RS-485 configuration must be the same with PTZ configuration.



Note: The PTZ parameters can’t be configured by this way, user can configure it on the Ivms-2000.

6.2 PTZ Control

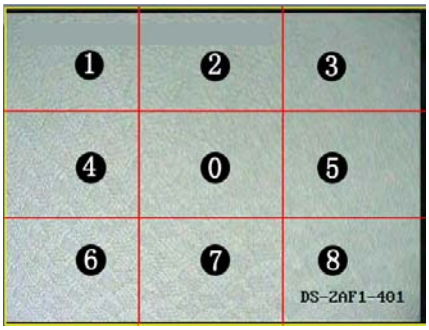
Return to preview interface where user can control PTZ.

There are 8 keys to control PTZ directions, and the active bar to change PTZ speed, which is adjustable from 1 to 7, and the default speed is 4.

Click key to start auto scan.

Click the function keys on the right to adjust focus, iris and zoom.

Other PTZ Control Mode – Screen PTZ Control: user can control PTZ by dragging and clicking in the play window.



Drag Control: There are 3×3 display panels on the screen; when the mouse moves to area 1-8, the mouse icon will become as: ❶ ; ❷ ; ❸ ; ❹ ; ❺ ; ❻ ; ❼ ; ❽ , and continued to move the mouse along the direction shown by arrows, PTZ will move to the same directions.

Note: This function is only available for software decode.

6.3 Partial Zoom

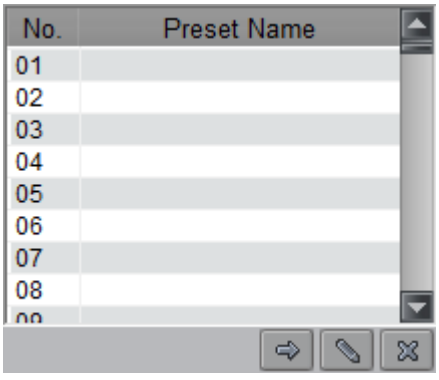
Click “Partial Zoom” to zoom in or out, the mouse icon will become as , press the left key of the mouse and drag an area you want to zoom.

Drag from up left to down right to zoom in; drag from down right to up left to zoom out.

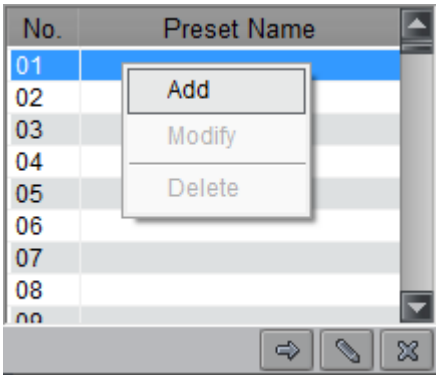
Note: This function is only available as HIKVISION protocol is selected for PTZ.

6.4 Preset

Select one channel and click the key on the PTZ control panel to enter preset edit window.



Select one play window, and right click the preset list or click to add, modify or delete preset.



Move the PTZ to the position you want, and click "Add" to input preset name, and finally click OK to finish.

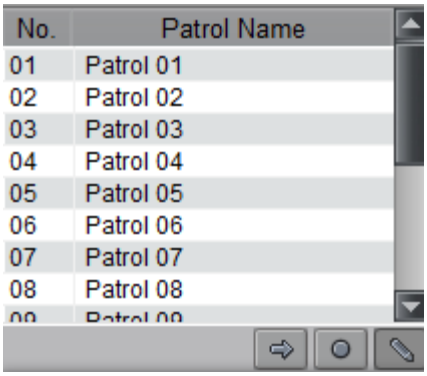
Then double click preset in list or click to call it.

Right click preset to modify or delete this preset, click to delete preset as well.

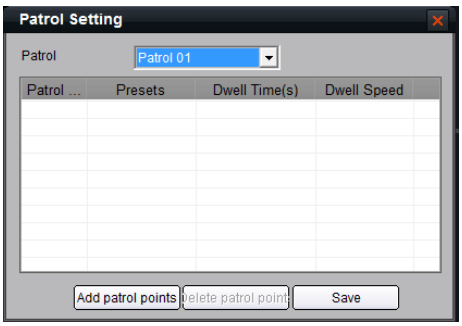
6.5 Patrol

After adding two or more presets for one channel, you can set a patrol with presets for PTZ.

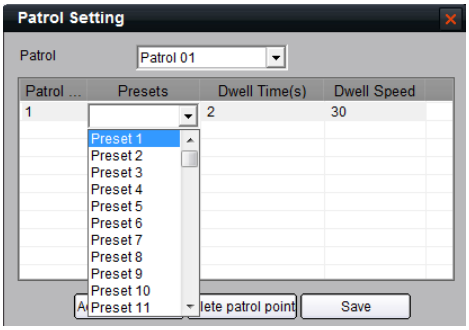
1st step: select one channel and click key to show patrol list.



2nd step: Click or right click patrol name and then select the preset you want to enter patrol configure menu.

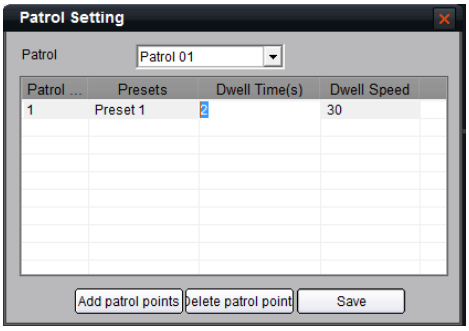


3rd step: Click Add patrol points add the patrol, you can also click preset area to select presets from the list.

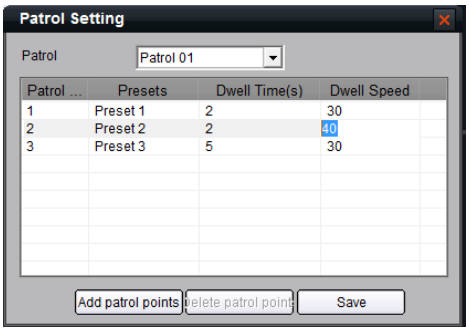


4th step: Set the time and speed for the preset.

Note: Dwell time is between 1 and 128s; and the dwell speed is between 1 and 40.



5th step: Repeat the 2nd and 3rd step to add the presets to the patrol. Then click Save key to save the settings.

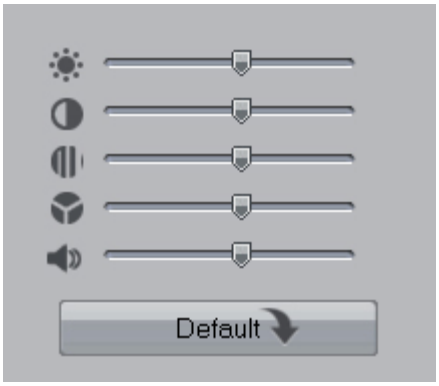


After configuration, you can choose the patrol from the list Patrol 01, and call/stop them by clicking and keys.

6.6 Video Parameters Configuration

Click the key to show the video parameters configuration menu.

Move to adjust the video parameters. (Range: 1-10, default value: 6).



Icon	Description		Icon	Description

	Brightness			Contrast
	Saturation			Hue
	Volume		Default	Restore

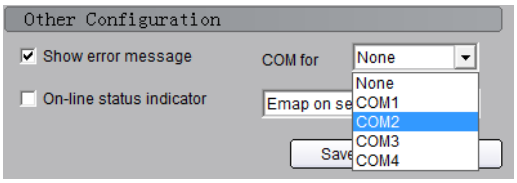
6.7 Keyboard and Joystick Control

The iVMS supports keyboard (DS-1002KI, DS-1003KI) and joystick control PTZ and preview window layout.

Connect Ta, Tb of DS-1002KI, DS-1003KI keyboard to Rx+, Rx- of RS-485⇨RS-232 converter, and then connect converter to COM interface of computer.

Keyboard connect configuration

Click Setup → Local Settings → Advanced, and select keyboard serial ports (None by default) in "Other Configuration". Click Save to save parameters

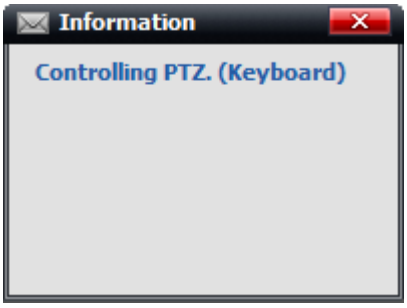


Keyboard control

Press "EXIT" button on the keyboard to switch control state. A message "Controlling window layout" will pop up afterwards, and then you can move the green active box by using keyboard joystick.

Press "EXIT" button on the keyboard to switch control state. A message "Controlling PTZ" will pop up afterwards, and then control PTZ by using joystick.

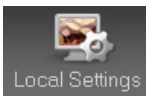
Press "PTZ control" button on the keyboard to control iris, focus, zoom, wiper, light, and call preset by using joystick or function buttons.

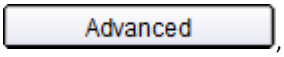


Note: the "Shift" button is used for switching PTZ control and window shift when it is connected to DVR. When using DS-1002KI, DS-1003KI keyboard connected to PC, the software will define the "ESC" button of the keyboard with

the switch function.

Click

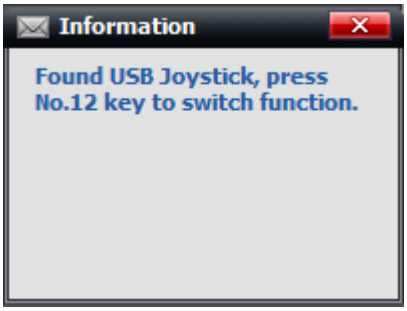
→ 

→ 

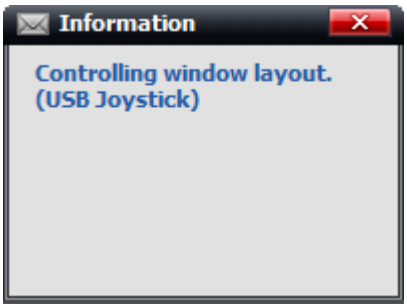
, and select keyboard serial ports as NULL by default to release the serial ports.

6.8 PTZ control by Joystick

Insert USB joystick, and a message will pop up shown as figure on the right, and define “switch button” afterwards.

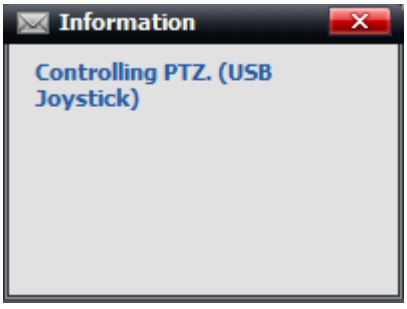


Press “switch button”, and a message “Controlling window layout” will pop up afterwards, and then you can move the green active box by using USB joystick.



Press “switch button”, and a message “Controlling PTZ” will pop up afterwards, and then you can control PTZ by using USB joystick.

Press “PTZ control” button on the keyboard to control zoom and preset calling by using USB joystick.



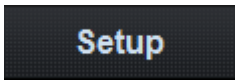
Note: The “Switch button” also is different according to different models of USB joystick. By default, iVMS software usually defines the last logic button as the “Switch button” (e.g. if there are 12 buttons in total, then define the 12nd button as the “Switch button”).

Different models of USB joystick have different buttons, which decide the number of presets for callup.

Chapter 7 Recording

7.1 Local Recording on Client

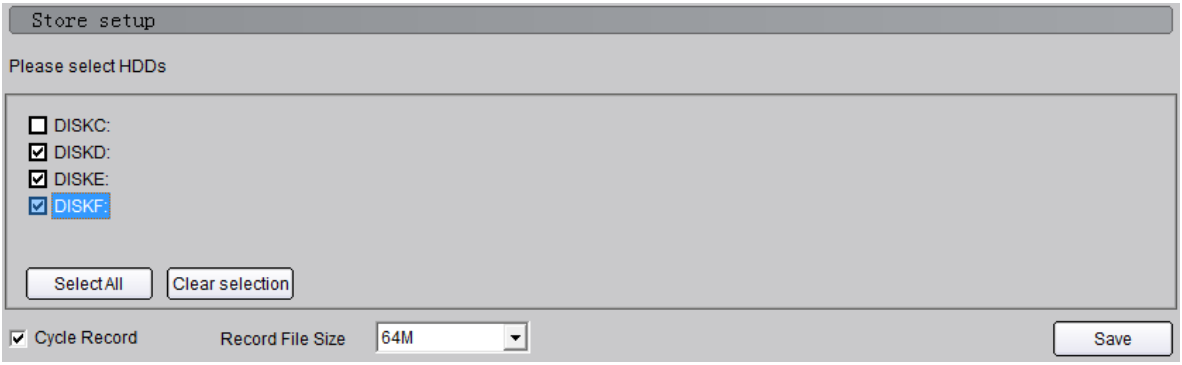
7.1.1 Store Setup

Click the tab page 

and then

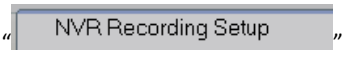
to enter record setting interface

It can set the record file store partition and the max. record file size in the store setup.



HDDs select	☑ Choose saving hard disk of the recorded files
Cycle Record	☑ Each disk space is less than 2G, and the earliest recorded files will be overwritten to continue recoding.
	☐ When the disk is full, the "Disk Clean" will pop up, after cleaning disk and if the disk space is larger than 2G, the schedule recording will restart.
Record file size	Max. size of each record file, 32M/64M/128M/256M selectable.

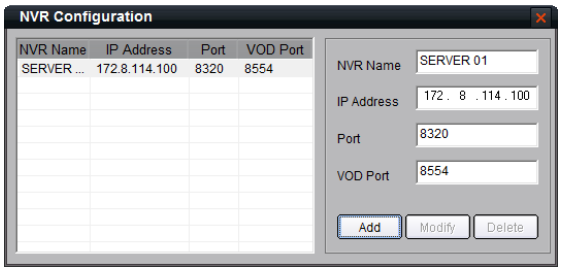
7.2 NVR Storage Server Recording Configuration

User can remote configure the recording schedule and playback the recorded files of the NVR storage server through client software. Click " 

" to enter the NVR configure

7.2.1 Add NVR Server

Click NVR Configuration key to enter NVR configuration interface.



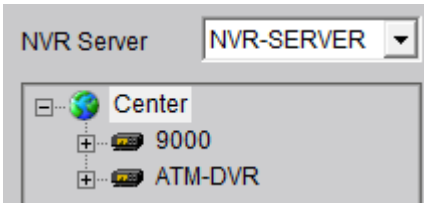
Input the NVR server name, IP address and port, and click Add key to finish settings.

Note: Up to 16 NVR servers can be added to the iVMS software. The default server port and VOD port are 8320 and 8554.

7.2.2 NVR Recording Mode Configuration

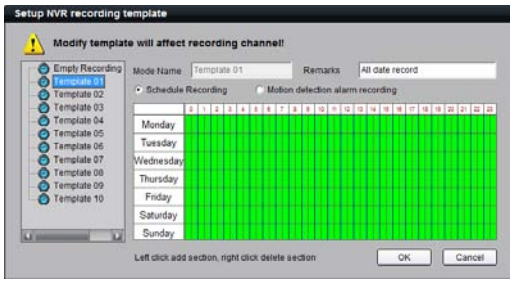
After finish adding NVR server, user can make the recording mode for custom setting, using for the schedule recording setting.

1st step: Select added NVR servers from Please select N list, click Modify Template to enter modifying recording schedule.

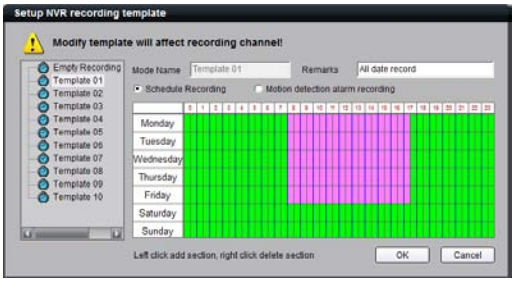


2nd step: Select the record template, and set the recording period for the mode.

Click the mouse to add recording schedule; right click to cancel recording schedule.



Recording type includes “Schedule Recording” & “Motion Detection Recording”. The using left click to add section, right click to delete section in the date area.



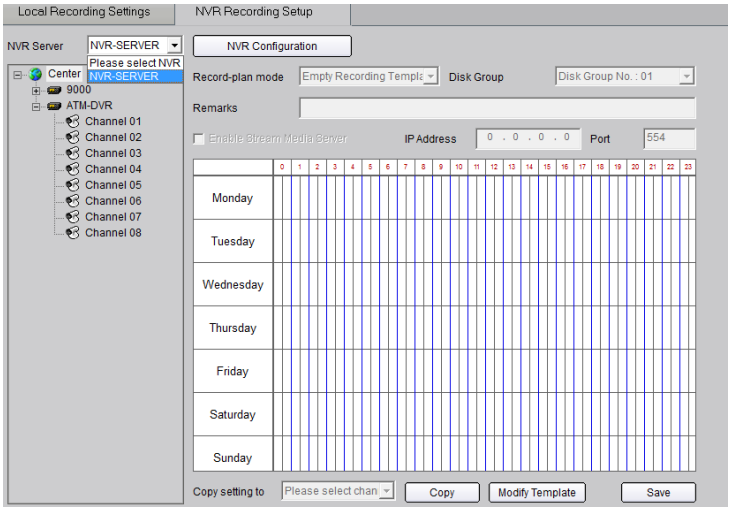
3rd step: click “OK” to finish modifying the template.

Note: The unit of recording mode is half an hour. The green color stands for the schedule recording, pink for the motion detection recording and white for no recording.

7.2.3 NVR Recording Schedule Configuration

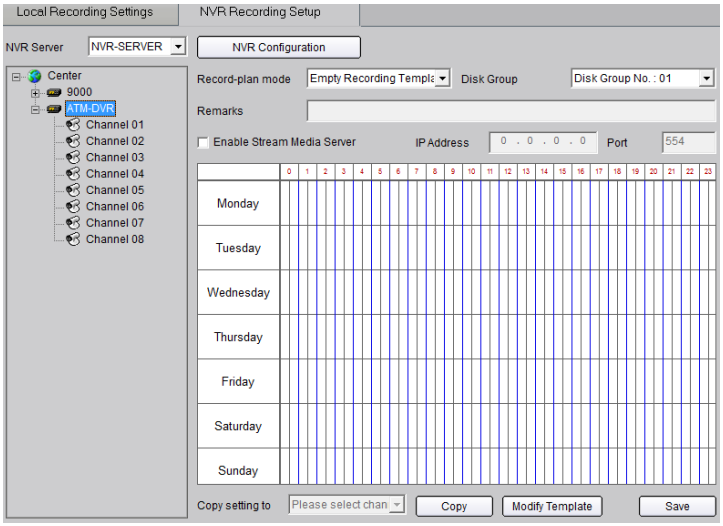
NVR server is capable of realizing the record &storage, which can be set through iVMS software.

1st step: Select the NVR server from the NVR drop-down menu



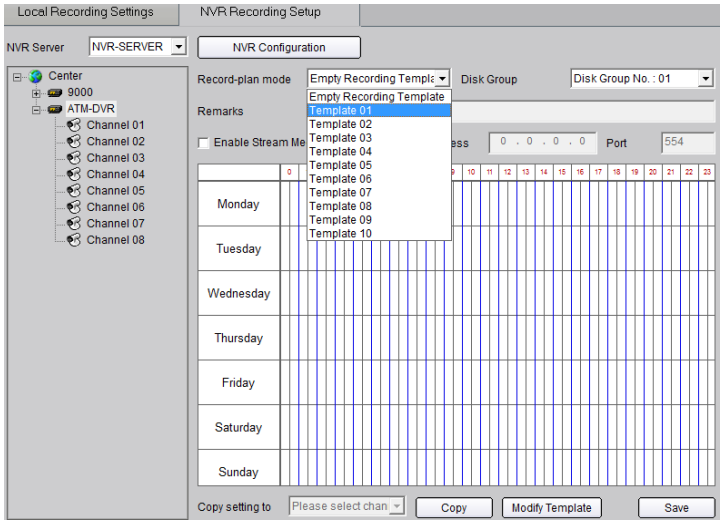
2nd step: Select the device or channel for recording

If device has been selected, it will be effective to all the channels of the device.

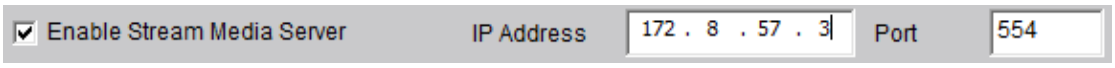


3rd step: Configure the recording schedule.

Select the mode from “Recording plan mode” and select the disk group to save the recorded files.



If necessary, enable stream media server and input the IP address and port.



Click to finish the NVR server schedule recording configuration.

Chapter 8 Playback

Two playback modes are selectable: local playback and remote VOD, which can be selected by clicking

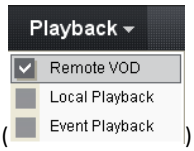
key.

Local Playback: Searching the recorded files from hard disk of PC.

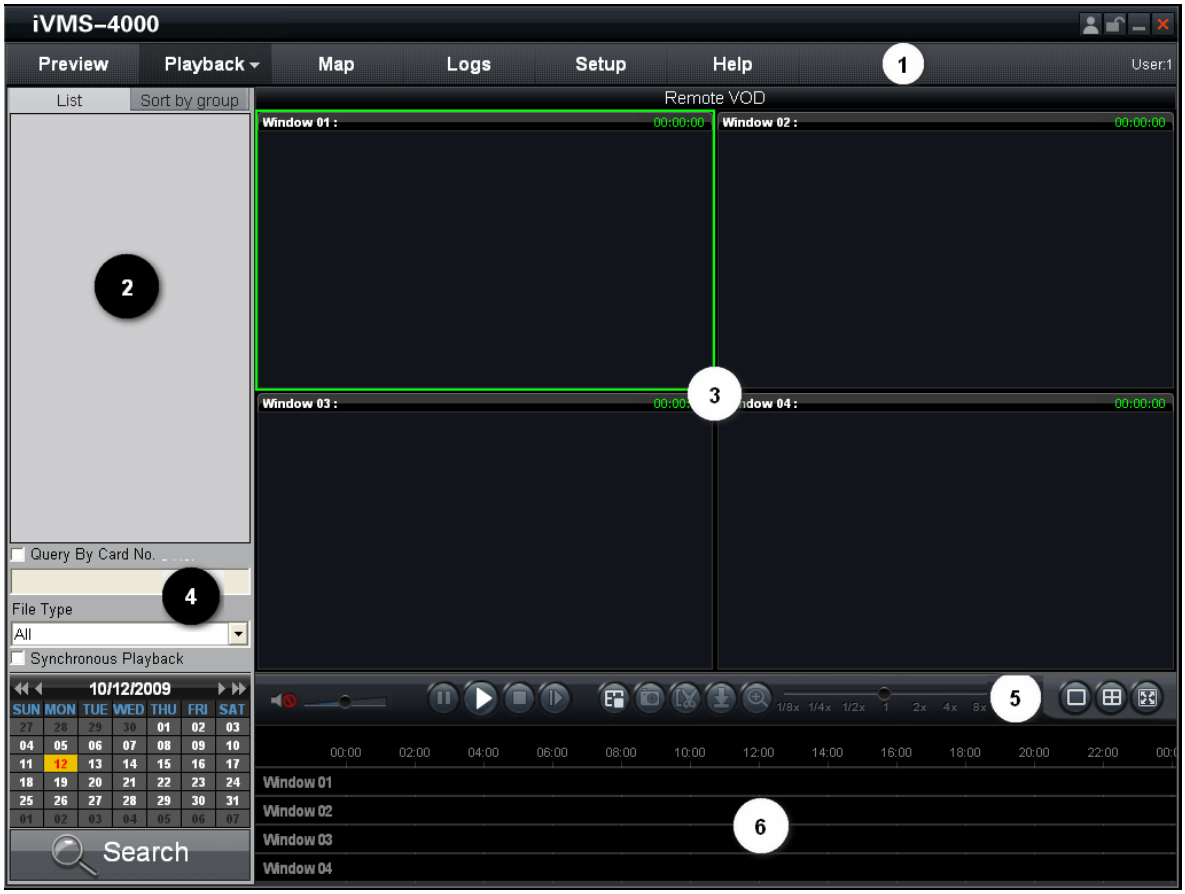
Remote VOD: Searching the recorded files from hard disk of DVR or storage server.

8.1 Remote VOD

Click

and select “Remote VOD” (

) to enter the playback interface.

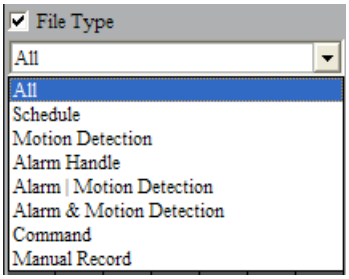


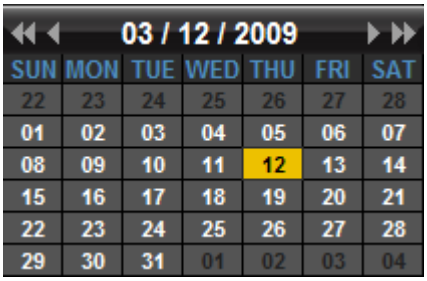
Area	Description		Area	Description
❶	System Area		❷	Device Area
❸	Playback Windows		❹	Query Area
❺	Play Control Buttons		❻	Time Axis Area

8.1.1 Remote VOD Query

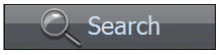
1st step: Select the playback channel and window.

2nd step: Select recorded files type and query time.





3rd step: Add information of card number. For ATM DVR, enable “Query by Card No.” and input the overlaid card number to search. Other device can skip this step.

4th step: Click 

key to search the matched recorded files, if there is, then it will shows in the time axis area.

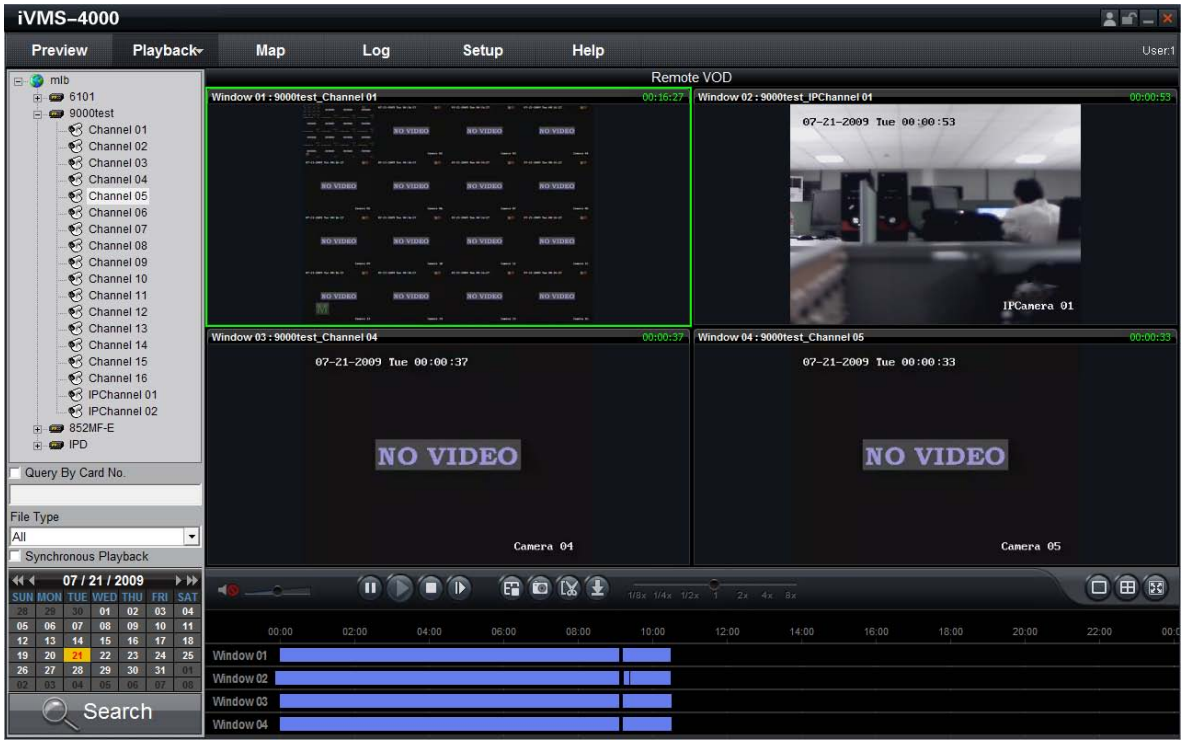
5th step: Click key to start playback. You can choose time by dragging mouse to the time you want on the time axis.

Select one channel then drag into playback window. If there is recorded file on the day, it will play back from the very beginning of this day.

If you enable synchronous playback, then the 4 windows will play back synchronously. If the start time of the 4 windows is not same, the most ahead window will wait for other windows until they reach the same time point.

8.1.2 Playback Control

When playback has succeeded, the play window will show as below:



Descriptions of playback buttons:

Button	Description		Button	Description
	Open/Close Sound			Capture
	Pause			Video Clip
	Play			Download
	Stop			Single window
	Play by single frame			4 Screen Division
	Stop All			Full Screen
		Play Speed Adjust Bar		

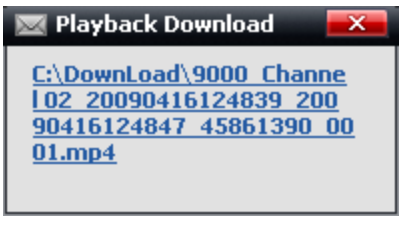
Note:

In the single frame playback mode, every time you click button, the recorded files will play forward by one frame.

Only one window audio can be opened at the same time when in VOD mode. If the audio of next window opens then the audio of previous window will be closed.

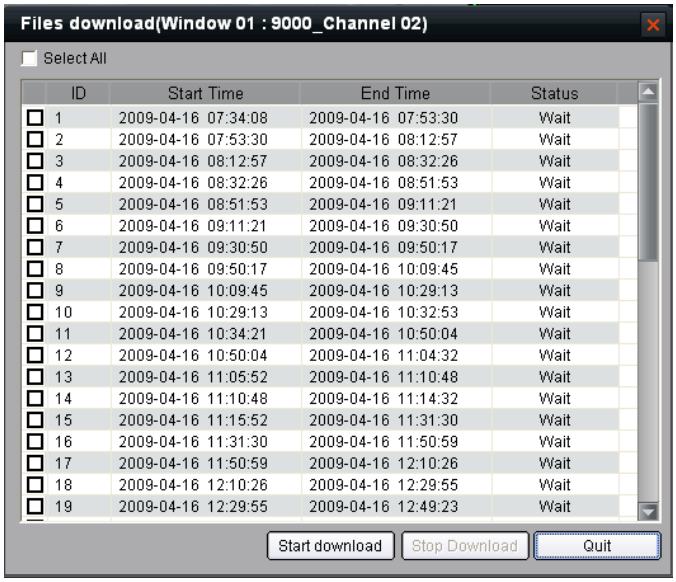
Record file Clip

During playback, click once to set begin time of video clip, click it again to set end time of video clip. After saving the video clip, a message will be raised, click it to open video segment.



Record file download

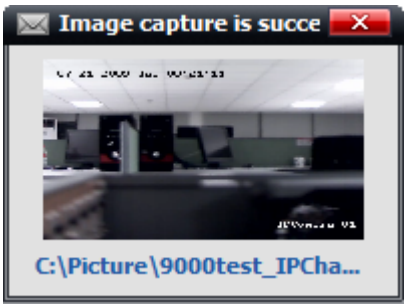
After searching out the recorded file, you can click to download file to local PC. You may click on message to open the download saving directory.



You may go to “Configure” → “Local Settings” → “Path configuration” to change the saving directory.

Playback capture

User can also get the remote capture by clicking button, and you will see the pop-up message. Click the picture to open the capture and click the path to open the capture folder.



Digital Zoom

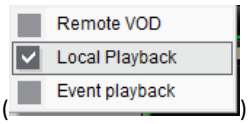
Click to realize the digital zoom function.

In the digital zoom mode, the playback window will display the video as PIP, and main window display the zoom in part.

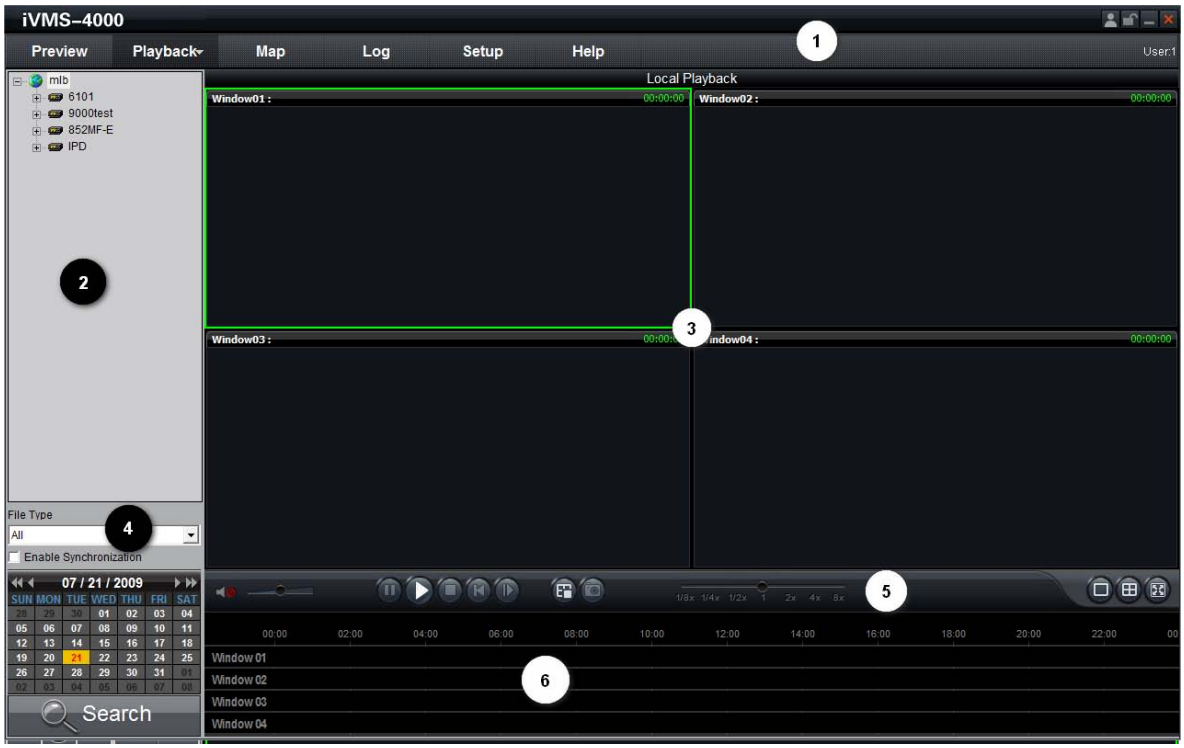
Move the tape on the right, click and to change the zoom ratio. Drag the red frame, the zoom area will move with it. Roll the mouse, and user can change the zoom ratio as the same.

Click the button again to close the digital zoom.

8.2 Local Playback

Click Playback and select "Local Playback" (

) to enter the playback interface.

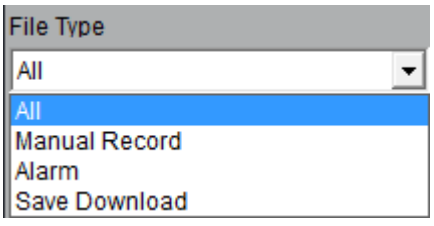


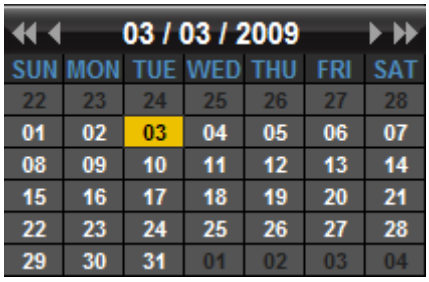
Area	Description		Area	Description
❶	System Area		❷	Device Area
❸	Playback Windows		❹	Query Area
❺	Play Control Buttons		❻	Time line Area

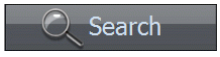
8.2.1 Local Playback Query

1st step: Select the playback channel and window.

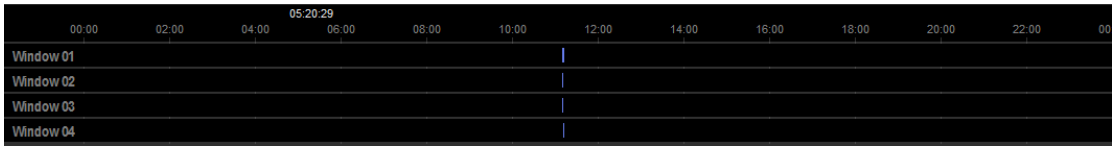
2nd step: Select recorded files type and query time.





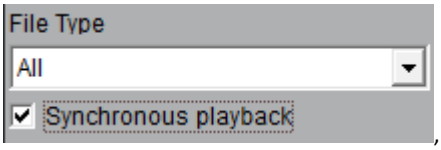
3rd step: Click 

key to search the matched recorded files. If there are search results, then they will be shown in the time axis area.



4th step: Click key to start playback. You can choose time by dragging mouse to the time you want on the time axis.

Select one channel then drag into playback window. If there is recorded file on the day, the software will play back it from the very beginning of this day.

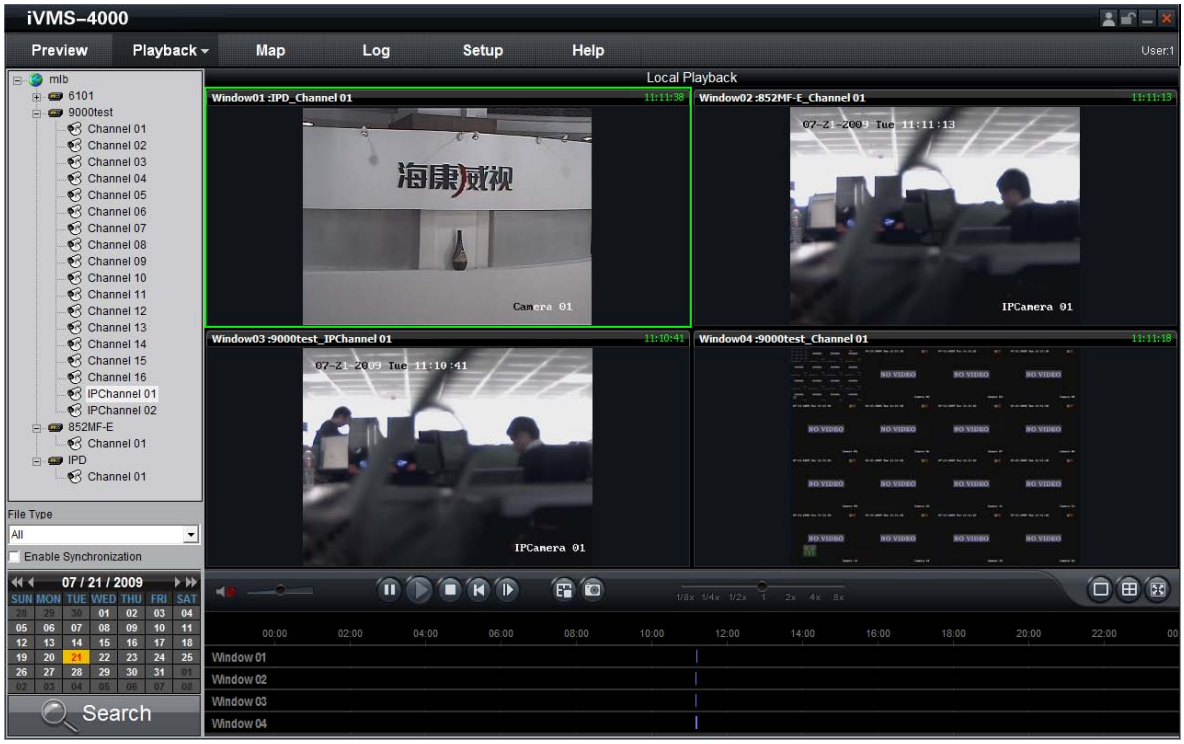
Note: if you select 

, then 4 windows will play back record synchronously.

If they are on different time point currently, the others will go to the same time point of the selected window.

8.2.2 Playback Control

When playback has succeeded, the play window will show as below:



Descriptions of playback buttons:

Button	Description		Button	Description
	Open/Close Sound			Stop All
	Pause			Capture
	Play			Digital zoom
	Stop			Single Screen

	Play by single frame			4 Screen Division
	Return to Beginning			Full Screen
1/8x 1/4x 1/2x 1 2x 4x 8x			Play Speed Adjust Bar	

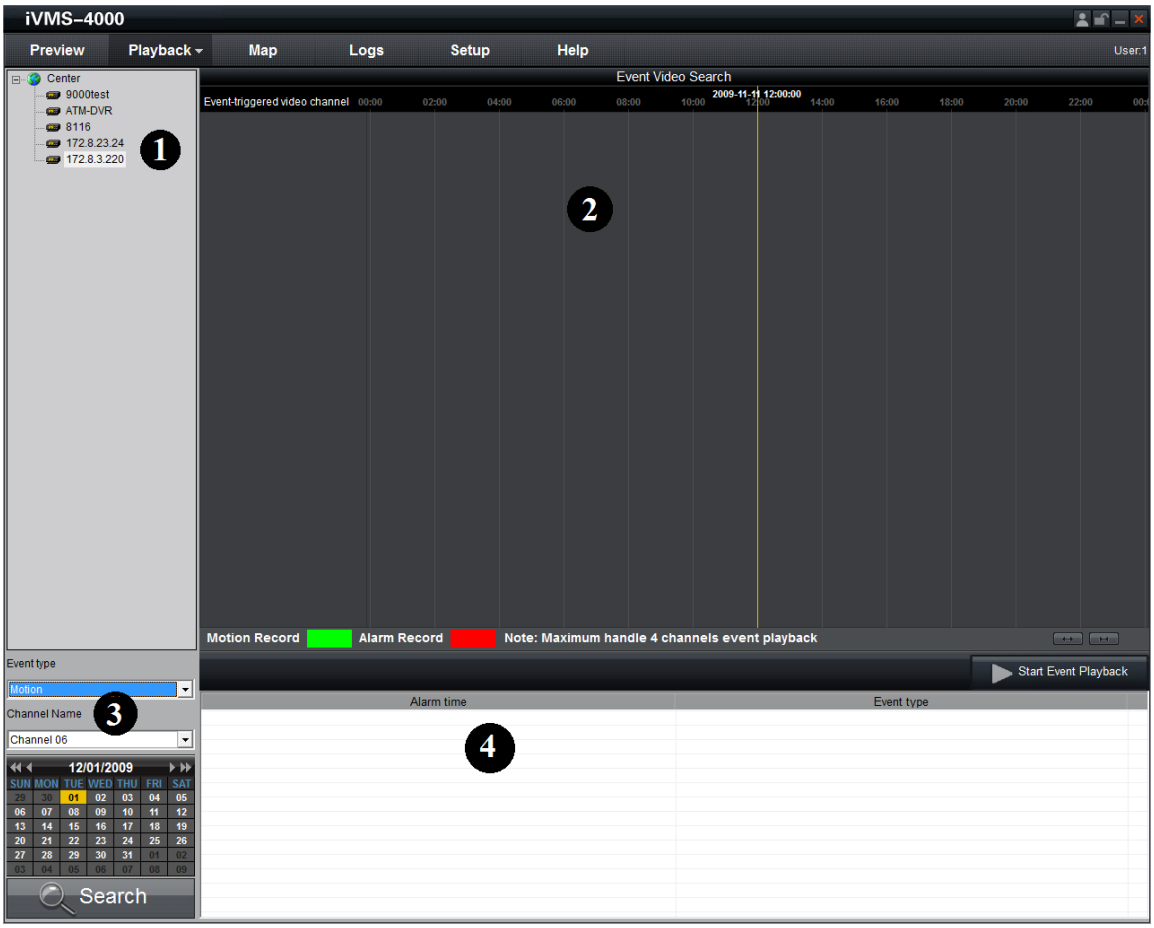
Note: In the single frame playback mode, every time you click button, the recorded files will play forward by one frame.

Only one window audio can be opened at the same time when in VOD mode. If the audio of next window opens then the audio of previous window will be closed.

8.3 Event Playback

Click the Playback button, and select Remote VOD / Local Playback / Event playback to enter the event playback interface.

By event playback function, user can search record of motion detection or sensor alarm. If the match record exists, it will be displayed on the interface.



Area	Description		Area	Description

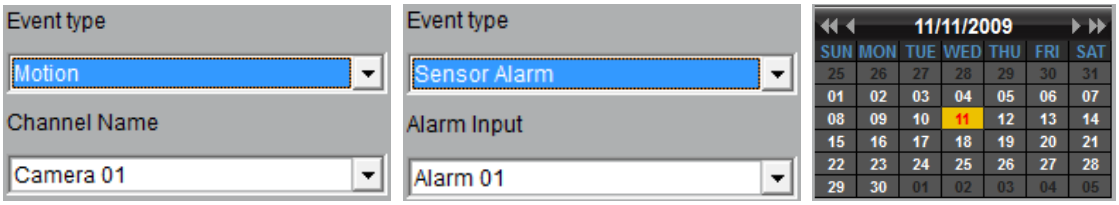
❶	Device list		❷	Time line
❸	Search options		❹	Log info

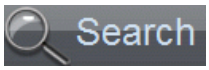
Note: Event playback function is supported by 9000/9100 series DVR, with firmware version 1.1 or higher.

8.3.1 Record search

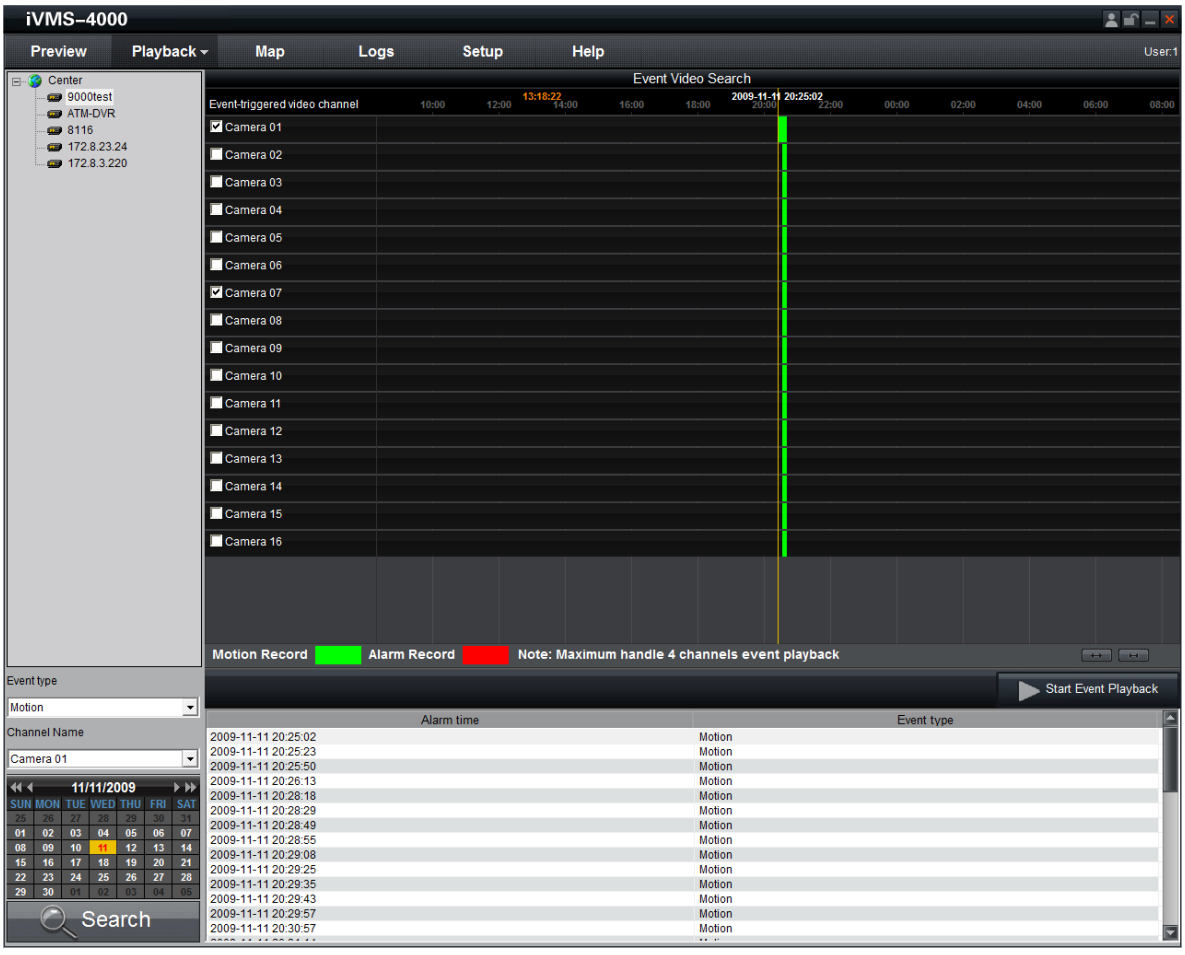
1st step: select a device.

2nd step: select the event type, camera channel/alarm channel and the event date.

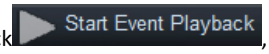


3rd step: click 

to search record file, if there are record file match the options, they will be displayed on the timeline.



4th step: select the channels needed to be playback, move the mouse and select a time point and then

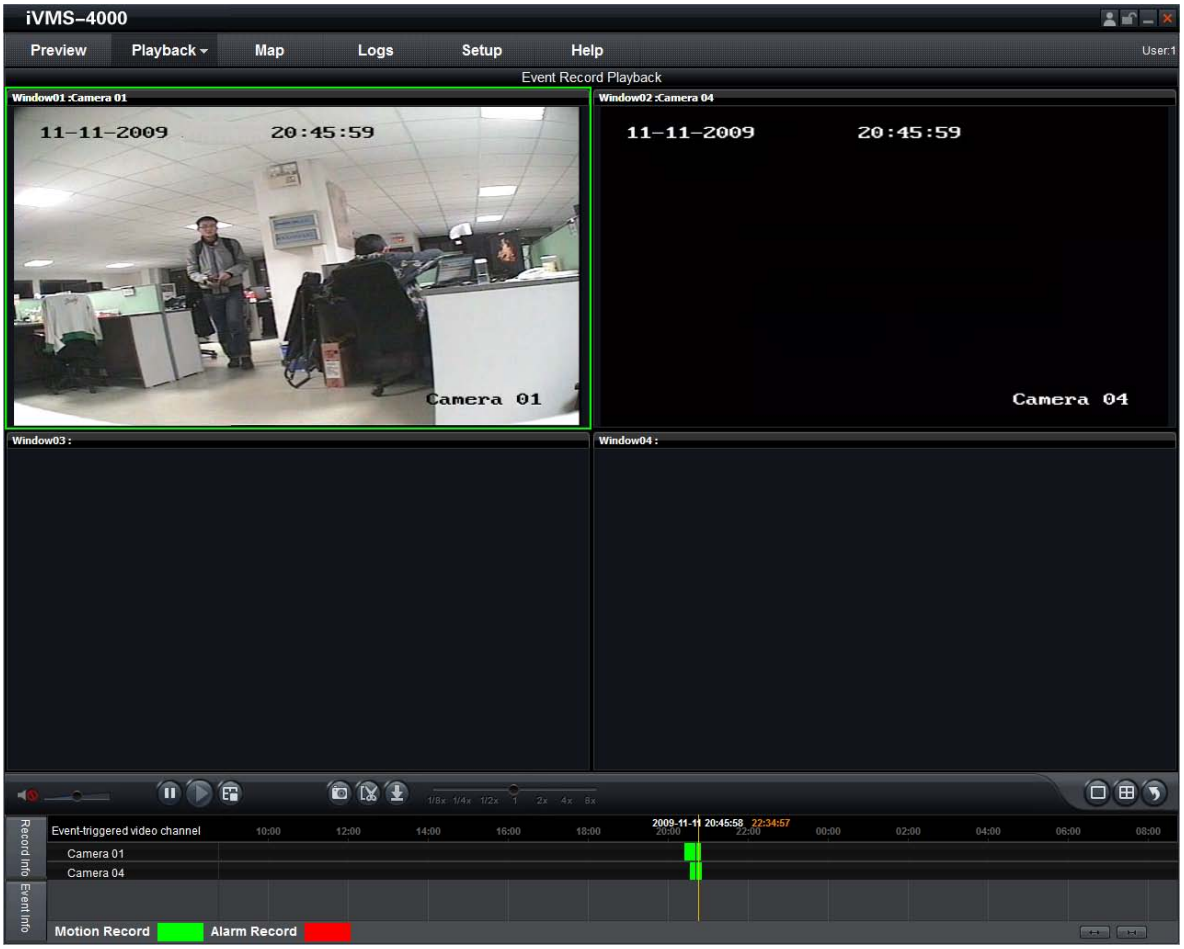
click 

, the selected channels will play back record synchronously

⚠ Note: Up to 4 channels of event playback is supported.

8.3.2 Playback control

Event playback interface is shown as the figure below:



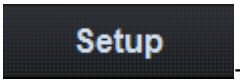
Button	Description		Button	Description
	Open/close sound			Video clip
	Pause			Download record
	Play			1 window division
	Stop all			4 window divisions
	Capture			Return to search
			Play Speed Adjust Bar	

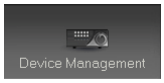
The software only can open voice of one window at the same time. If the voice of the next window is opened, then the voice of the previous will be closed automatically.

Chapter 9 Remote Configuration

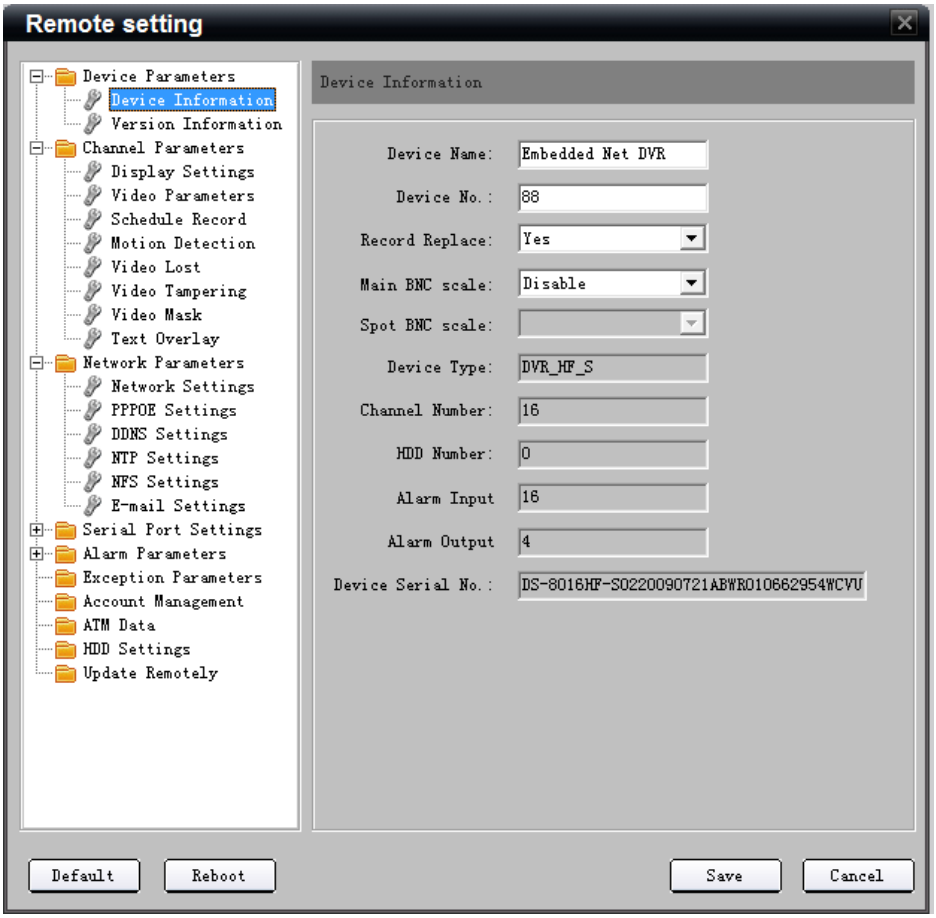
9.1 Device Remote Configuration

User can remotely configure the parameters of the device, including recording schedule, alarm schedule and etc.

Path: 

→ 

→ Right click the device and select “Remote Configuration”



For DS-9000 series DVR, click the “Remote Configuration”, and click

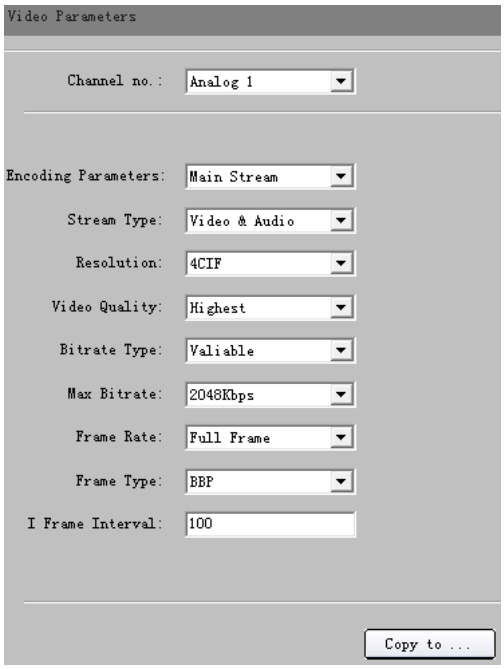
key in the pop-up menu to enter the configuration interface.

9.1.1 Remote Recording Configuration

9.1.1.1 Encoding Parameters Configuration

Select Channel Parameters → Video Parameters to enter encoding parameters configuration interface.

Note: If the device is DS-9000 series, click “Switch to IP Channel” and select IP channel to configure the parameters of IP camera.

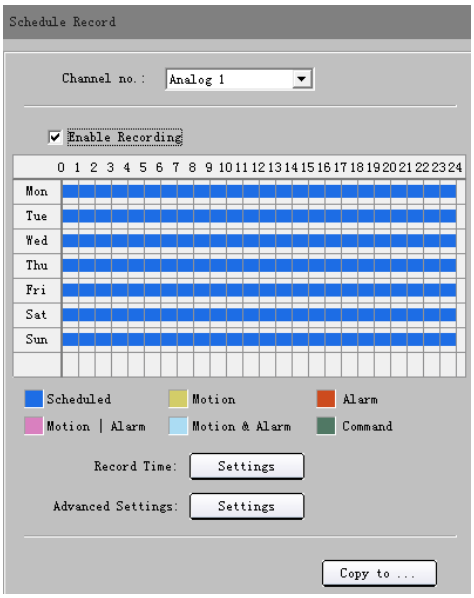


Parameters	Description
Encoding Parameters	Main/Sub stream and Event Parameters
Stream Type	Video&Audio or Video stream
Resolution	Recording Resolution
Video Quality	Highest, higher, high, average, lower, lowest
Bitrate Type	Variable & Constant
Max Bitrate	Maximum bit rate of the compressed stream
Frame Rate	Record frame rate, from 1/16 to full frame
Frame Type	BBP,BP & Single P frame
I frame interval	The interval between 2 I frames

9.1.1.2 Schedule Recording

Select Channel Parameters → Schedule Recording to enter configuration interface.

Enable recording by clicking the tick.



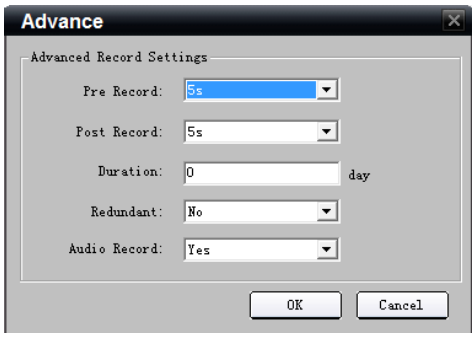
Click “Settings” of the “Record Time” to enter recording schedule configuration interface.

Select “Weekday” as some day of the week or the whole week for recording time.

Click Schedule Recording for the recording type. The “All Day Recording” or 8 “Segments” can be selected as well.

Note: The time of each segment can’t be overlapped.

Click “Settings” of the “Advanced settings” to enter advanced settings. User can set pre/post record time.



Note: “Recording Expired” “Redundant” and “Audio Record” are only available for 9000 series DVR.

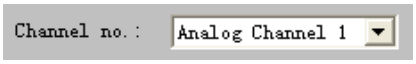
Parameters	Description
Duration	Storage life of recorded files in redundant disk, expired data will be deleted
Redundant	Redundant for this channel or not (When redundant disk is available)
Audio Record	Recorded files include audio or not

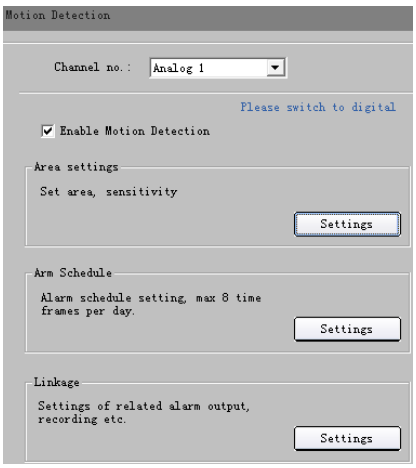
9.1.1.3 Motion Detection Recording

Click Motion Detection to enter motion detection recording interface.

Note: If the device is 9000 series, click “Switch to IP Channel” and select IP channel to configure the parameters of IP camera.

1st step: Select channel number for motion detection.



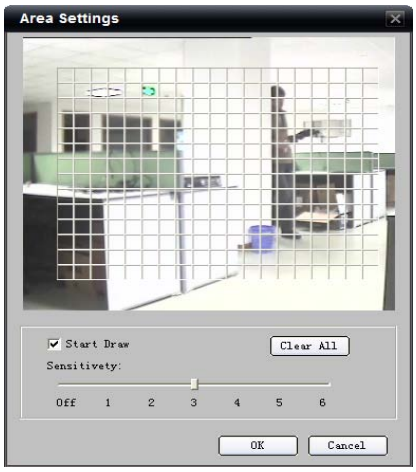


2nd step: Enable motion detection to activate “Setting Area”, “Arm Schedule” and “Linkage” settings.

3rd step: Set the motion detection area and sensitivity.

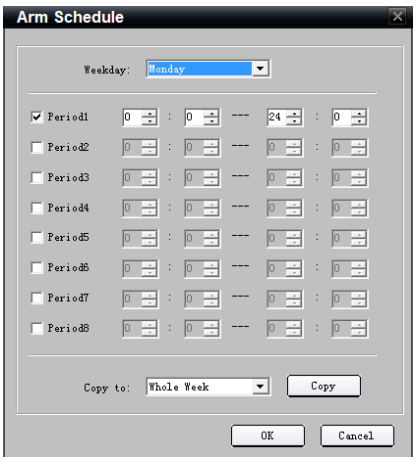
The sensitivity 1 and 6 are the lowest and the highest level.

Enable “Start Draw”, and select the detection area by using mouse.



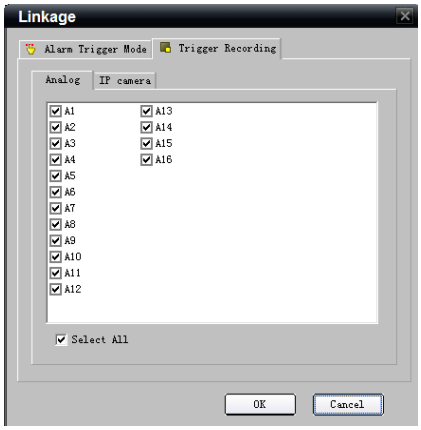
4th step: Set the detection time.

“Arm Schedule” can be one day or the whole week, and 8 segments for one day.

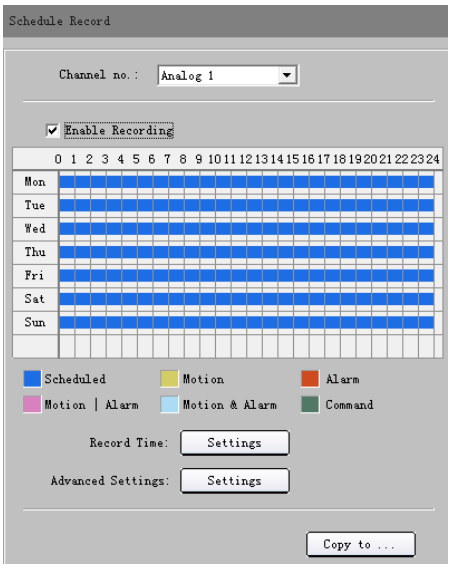


5th step: Set the “Trigger Recording” for linkage.

Click “Setting” in the linkage area and select “Trigger Recording” tab.



6th step: Select Channel Parameters → Schedule Recording, and enable recording by clicking the tick.



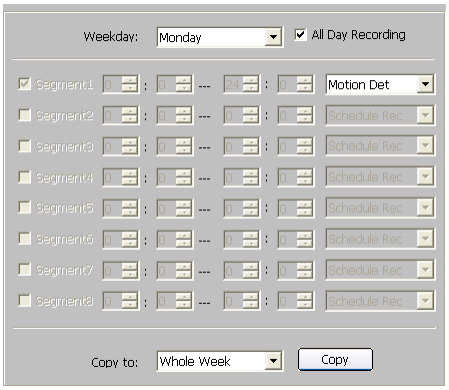
7th step: Set the detection recording time.

Click “Settings” of “Record Time”.

Select “Weekday” as some day of the week or the whole week for recording time.

Click Schedule Recording for the recording type and change it to Motion Detection. The “All Day Record” or 8 “Segments” can be selected as well.

Note: The time of each segment can’t be overlapped. The valid time is the intersection of the motion detection time and motion detection recording time.

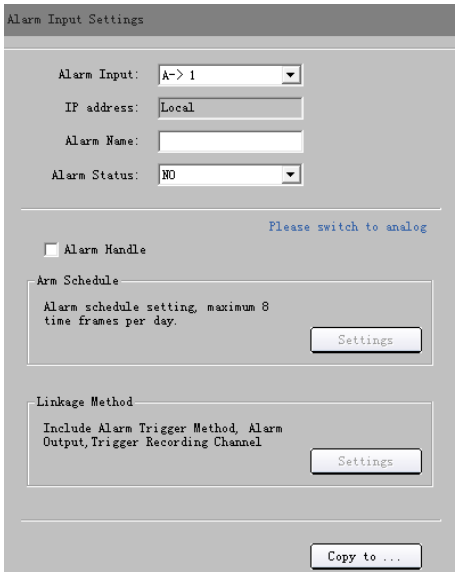


9.1.1.4 Alarm Recording

Select Alarm Parameters → Alarm Input Settings

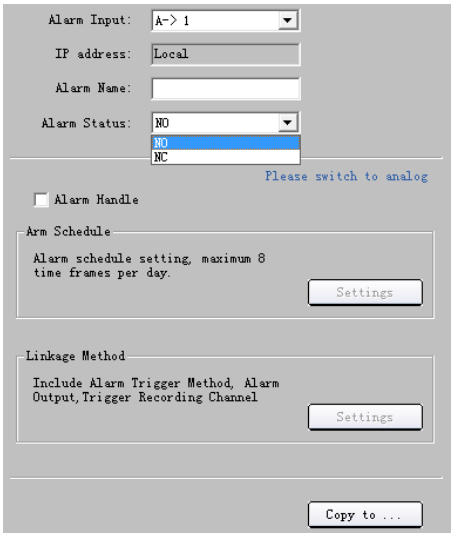
1st step: Select alarm input.

Note: If the device is DS-9000 series DVR, you can click “Switch to IP channel” to configure the alarm input of IP channel.

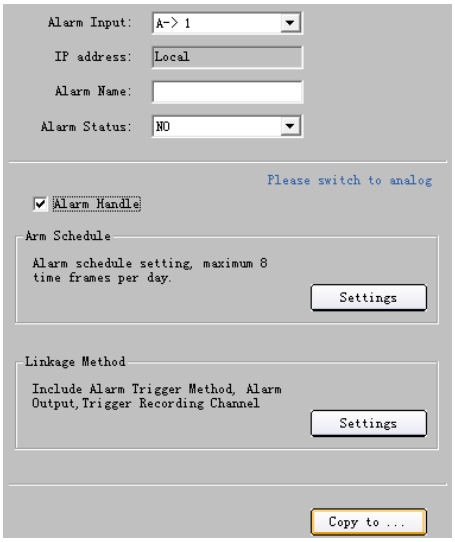


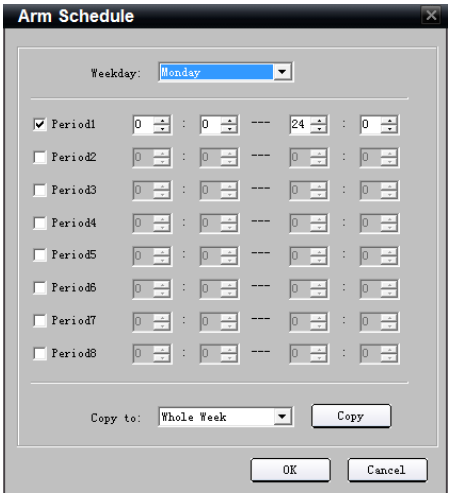
2nd step: Select the type of alarm input, “NO” or “NC”.

Note: The settings will become effective after rebooting.



3rd step: Enable “Alarm Handle” to activate “Arm Schedule” & “Linkage Method”.





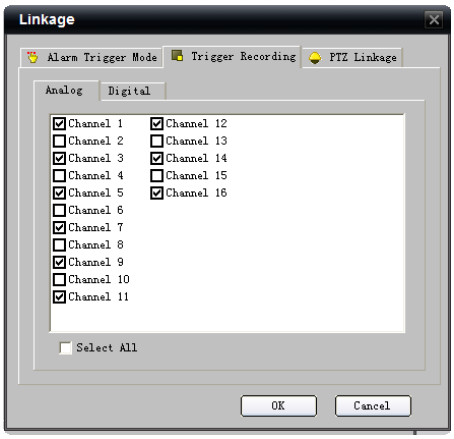
4th step: Set the arm schedule for alarm input.

Click “Settings” in “Arm Schedule” menu.

Select “Weekday” as some day of the week or the whole week for recording time.

The “All Day Record” or 8 “Segments” can be selected as well.

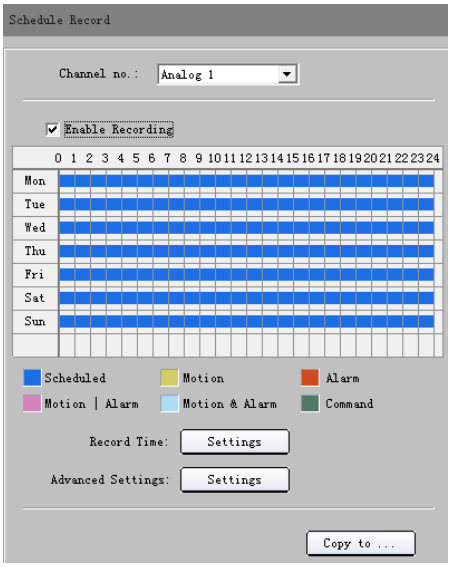
Note: The time of each segment can not be overlapped.



5th step: Set recording channel triggered by alarm.

Click “Settings” in “Linkage” menu and select “Trigger Recording” tab.

Enable the recording channels you want.



6th step: Enter schedule recording interface. Click Enable Recording to enable Recording.

7th step: Set the recording time for alarm input.

Click “Settings” of “Record Time”.

Select “Weekday” as some day of the week or the whole week for recording time.

Set the record type to be Alarm Recording.

The “All Day Record” or 8 “Segments” can be selected as well.

Note: The time of each segment can not be overlapped.

9.1.1.5 Other Recording Modes

Other Recording Modes include “Motion detection & Alarm”, “Motion detection | Alarm”.

“&” means recording is triggered when two situations happened together;

“|” means recording is triggered when one of the situations happened.

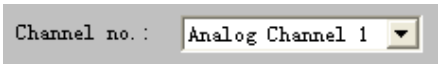
The configurations are the same with “Motion detection recording” or “Alarm recording”.

9.1.2 Alarm

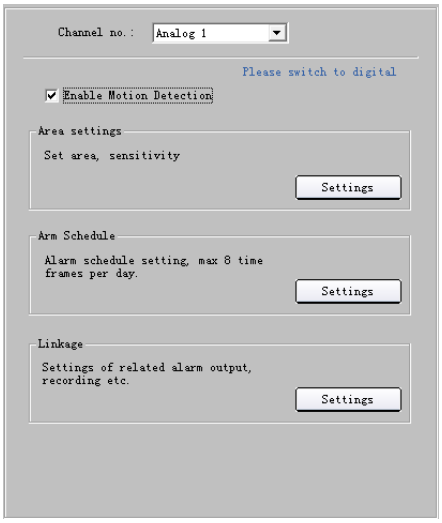
You can configure motion detection alarm, signal level alarm, video loss alarm and other alarm and linkage through client software.

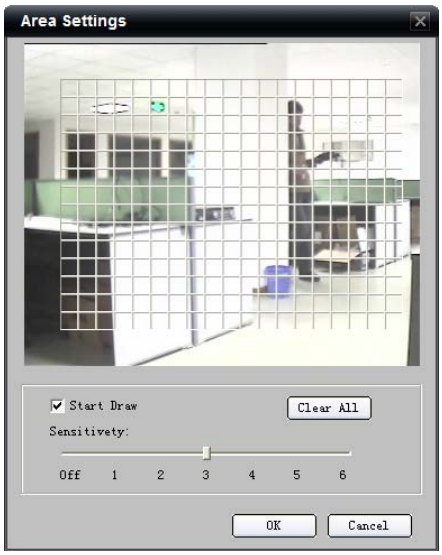
9.1.2.1 Motion Detection Alarm

1st step: Select channel number for motion detection.



2nd step: Enable motion detection to activate “Setting Area”, “Arm Schedule” and “Linkage” settings.

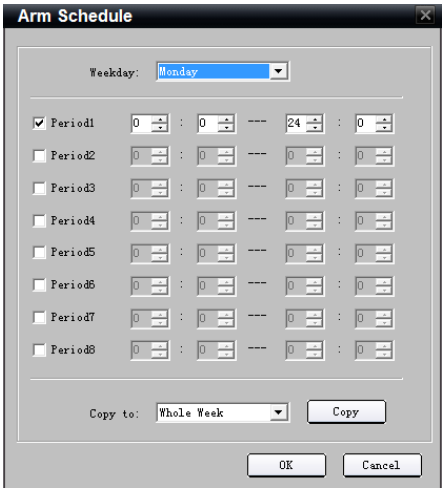




3rd step: Set the motion detection area and sensitivity.

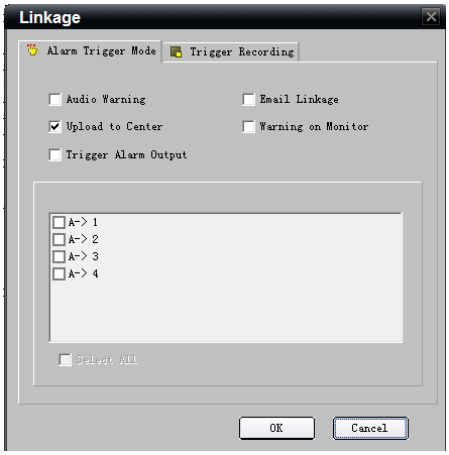
The sensitivity 1 and 6 are the lowest and the highest level.

Enable “Start Draw”, and select the detection area by using mouse.



4th step: Set the detection time.

“Arm Schedule” can be one day or the whole week, and 8 segments for one day.



5th step: Set the alarm linkage for motion detection and select alarm output channel.

Alarm Linkages Description:

Linkage	Description
Warning on Monitor	When the alarm signal is detected, the image of corresponding channel will pop out as single screen.
Audio Warning	Alarm triggers buzzer

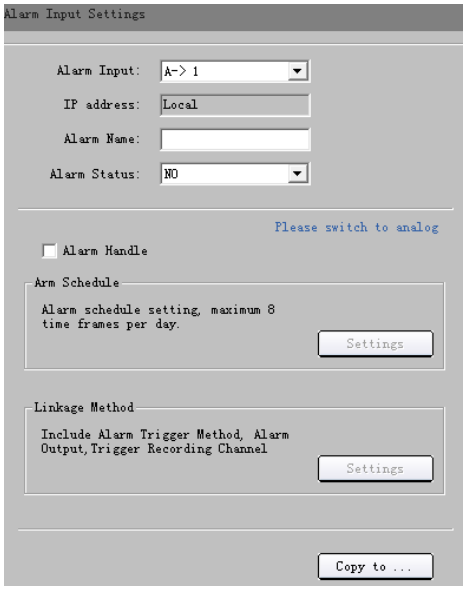
Upload to Center	Upload the alarm signal to the center, such as client software
E-mail Linkage	When the alarm signal is detected, the client software will send the email to the designated mailbox.
Trigger Alarm Output	Trigger alarm output of the device; if the device is 9000 series, triggering alarm output of IP channel can be selected as well.

9.1.2.2 Signal Level Alarm

Select Alarm Parameters → Alarm Input Settings

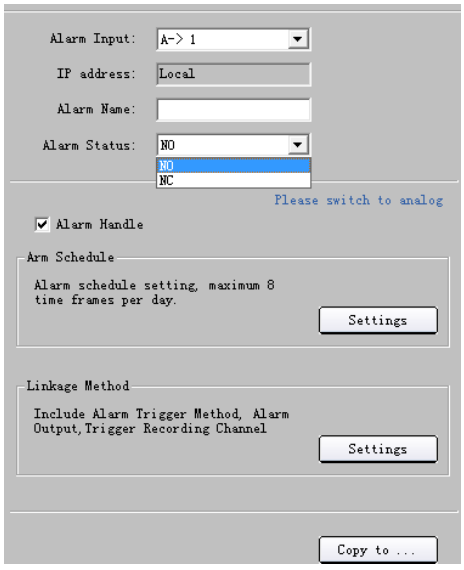
1st step: Select alarm input.

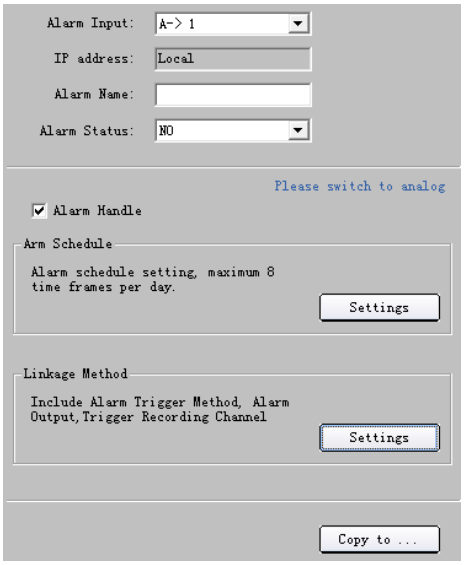
Note: If the device is DS-9000 series DVR, you can click “Switch to IP channel” to configure the alarm input of IP channel.



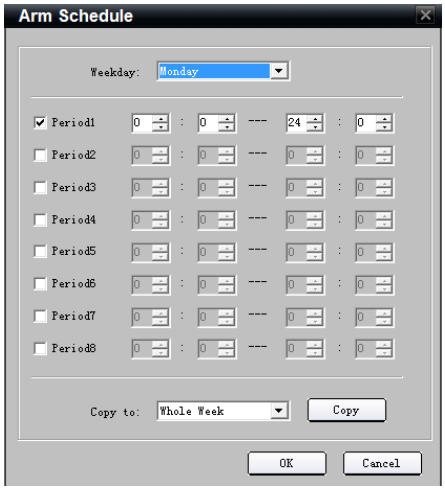
2nd step: Select the type of alarm input, “NO” or “NC”.

Note: The settings will become effective after reboot.





3rd step: Enable “Alarm Handle” to activate “Arm Schedule” & “Linkage Method”.



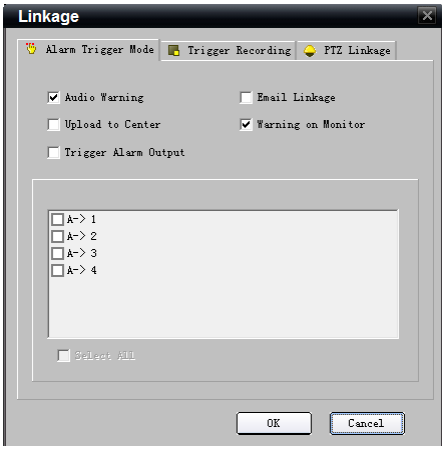
4th step: Set the arm schedule time for alarm input.

Click “Settings” in “Arm Schedule” menu.

Select “Weekday” as some day of the week or the whole week for recording time.

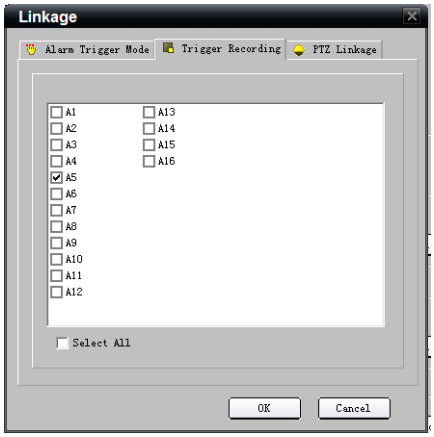
The “All Day Record” or 8 “Segments” can be selected as well.

Note: The time of each segment cannot be overlapped.



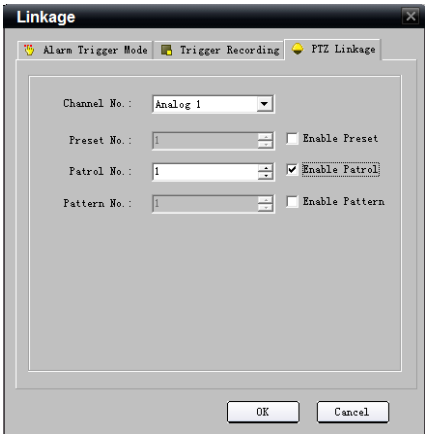
5th step: Set the alarm linkage for signal level and select alarm output channel.

6th step: Set Trigger Recording for signal level alarm.



7th step: Set PTZ linkage for signal level alarm.

Note: Alarm input can link PTZ of several channels, but one channel can only link one option of preset, sequence and pattern.



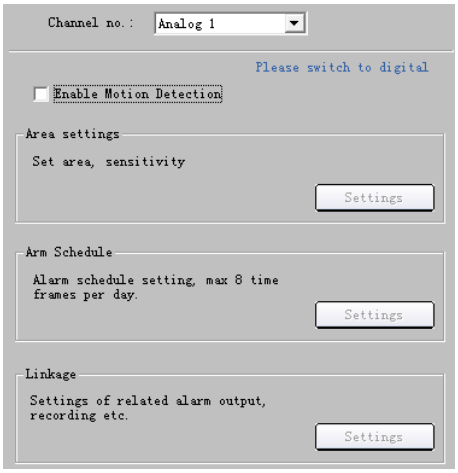
9.1.2.3 Video Lost

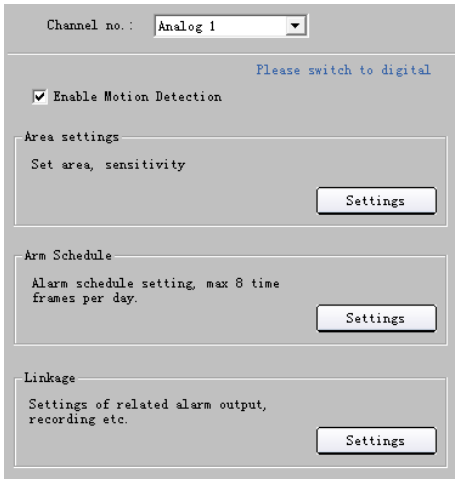
If the video input signal lost, user can set relevant linkage operation.

1st step: Select the channel number for video loss.

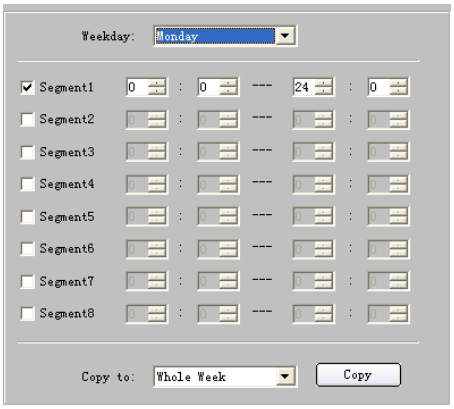
Select Channel Parameters → Video Lost

Note: If the device is DS-9000 series DVR, you can click “Switch to digital channel” to configure the video loss of IP channel.





2nd step: Enable “Video Loss” to activate settings of “Arm Schedule” and “Linkage”



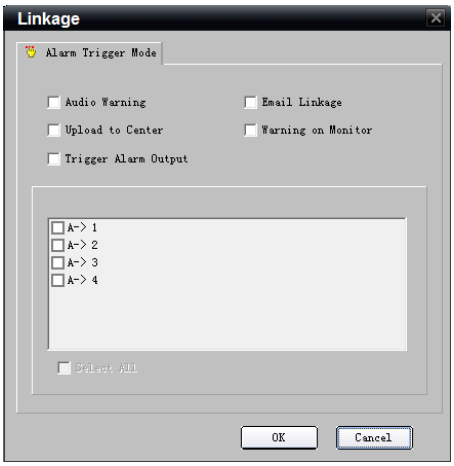
3rd step: Set the arm schedule for video loss.

Click “Settings” in “Arm Schedule” menu.

Select “Weekday” as some day of the week or the whole week for the arm schedule.

The “All Day Record” or 8 “Segments” can be selected as well.

Note: The time of each segment can not be overlapped.



4th step: Set linkage for video loss.

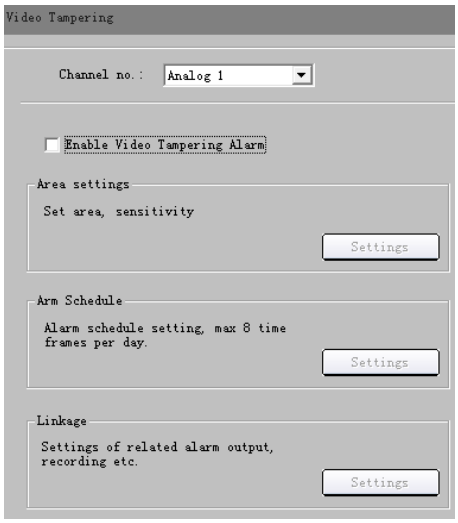
Click “Settings” in the “Linkage” menu.

9.1.2.4 Video Tampering

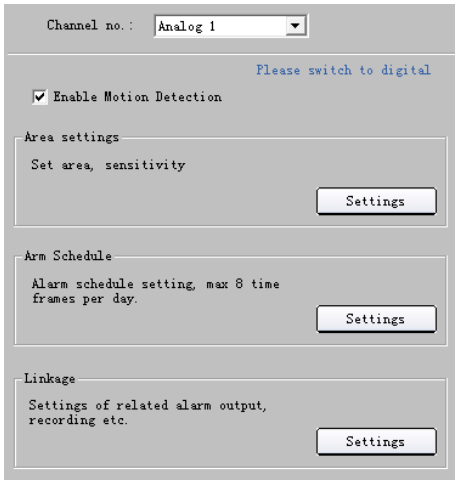
1st step: Select the channel number for video tampering.

Select Channel Parameters → Video Tampering

Note: If the device is DS-9000 series DVR, you can click “Switch to digital channel” to configure the video tampering of IP channel.



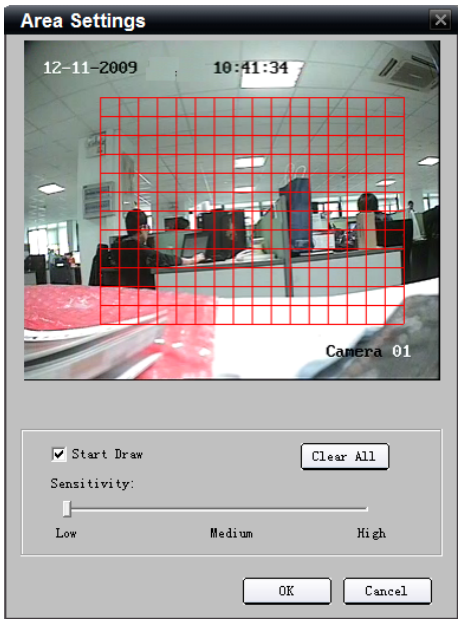
2nd step: Enable “Video Tampering Alarm” to activate settings of “Setting Areas”, “Arm schedule” and “Linkage”



3rd step: Set the video tampering area and sensitivity.

The sensitivity can be divided into three levels: Low, Medium and High.

Enable “Start Draw”, and select the detection area by using mouse.



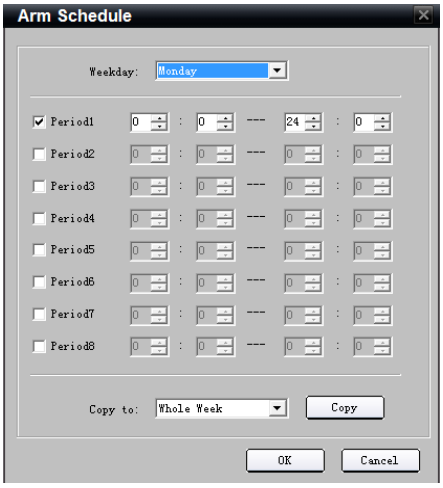
4th step: Set the arm schedule for video tampering.

Click “Settings” in “Arm schedule” menu.

Select “Weekday” as some day of the week or the whole week for the arm schedule.

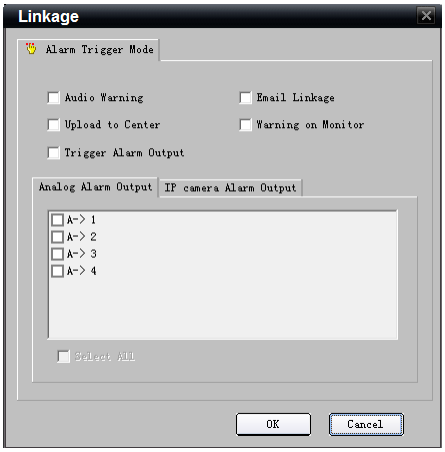
The “All Day Record” or 8 “Segments” can be selected as well.

Note: The time of each segment cannot be overlapped.



5th step: Set linkage for video tampering.

Click “Settings” in the “Linkage” menu.

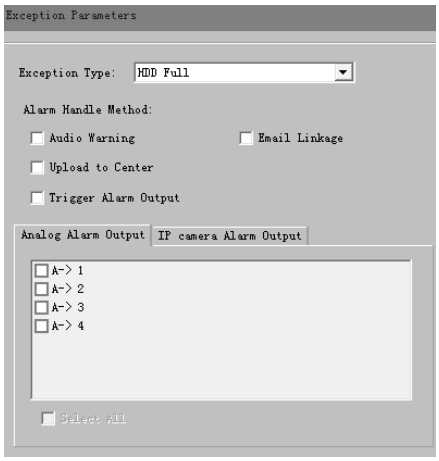


9.1.2.5 Exceptions

Exception parameters are for the alarm handling of abnormal events, including “HDD Full”, “HDD Fault” (HDD errors or HDD not initialized), “Network Disconnection”, “IP Address Conflict”, “Illegal Access” (user name or password wrong), “Video Output Standard Mismatched” and “Video Signal Exception” (video signal unstable).

Select the exception type and handle method.

Select Exception Parameters to enter configuration interface.

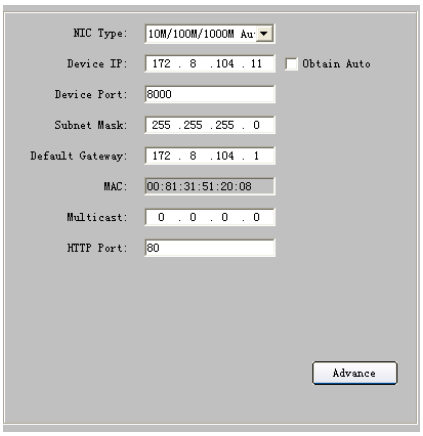


9.1.3 Network Configuration

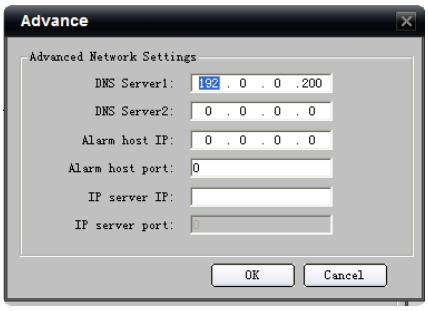
9.1.3.1 Basic Configuration

Select Network Parameters → Network Settings

Configure the network according to the actual situation. If there is DHCP server in the network, enable “Obtain Auto” and reboot the device to get the IP address under this network segment automatically.



Select “Advance” to enter advanced configuration. You can configure preferred DNS server1 and spare DNS server2, IP address of alarm host and IP server.



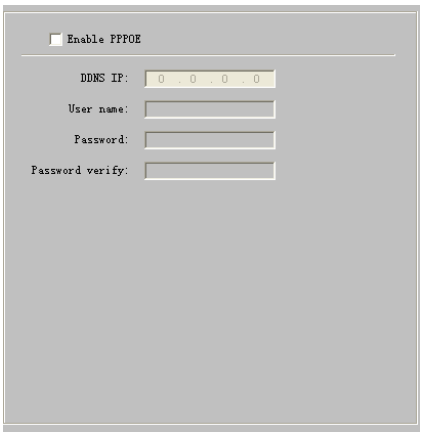
Parameters	Description
DNS1 DNS2	Preferred and spare DNS server
Alarm host	Alarm signal can be uploaded to the IP address automatically
IP sever	IP address of IP server

9.1.3.2 PPPoE

Select Network Parameters → PPPOE Settings

Enable PPPoE by ticking, input the user name and password, and then save the changes and reboot the device to make the parameters become effective.

For successful connection, the current IP address will be displayed in the blank “DDNS IP”.



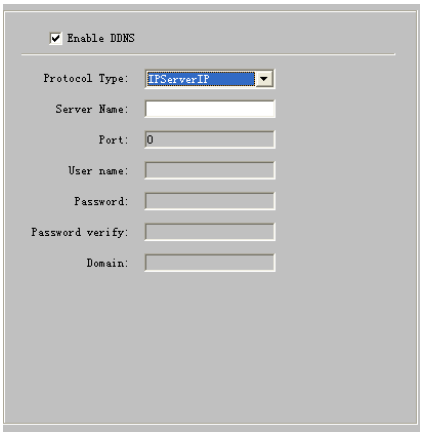
9.1.3.3 DDNS

The adoption of DDNS function can solve the problems caused by dynamic IP.

Click Network Parameters → DDNS Settings

Enable DDNS.

If the “IPServerIP” is selected as protocol, then input the address where the IP server is running.

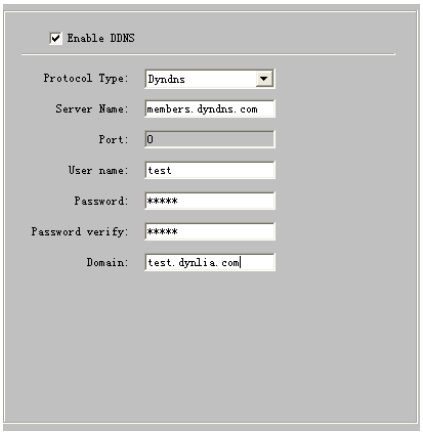


If the “Dyndns” is selected as protocol:

Server Name: Input the IP address of the server, such as members.dyndns.org;

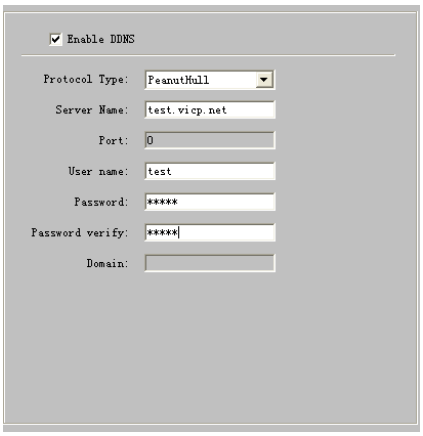
Domain: the domain name that user applied for the device, such as test.dynlia.com;

User name, password and verify: the account information that user registered on the Dyndns website.



If the “Peanut Hull” is selected as protocol:

Input the user name and password applied on the Peanut Hull website to visit the device by the applied domain name.



9.1.3.4 NTP

The adoption of NTP function can enable iVMS software to synchronize the time and data of the device regularly.

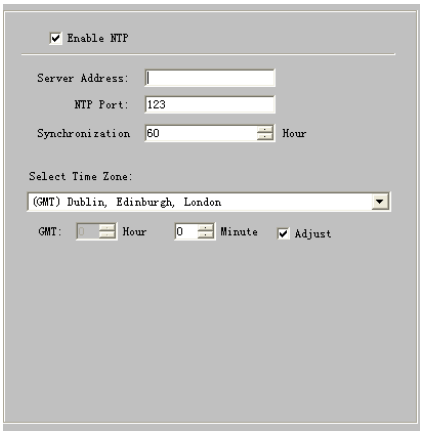
Select Network Parameters → NTP Settings

Tick to enable NTP function.

Note: Time Synchronization Interval: 0~10080 min (default 60min).

If the device is connected to the public network, the IP address of NTP server provided by carrier can be input in the blank “Server Address”;

If the device is connected to private network, the IP address of NTP server built by NTP software can be input the blank “Server Address”.



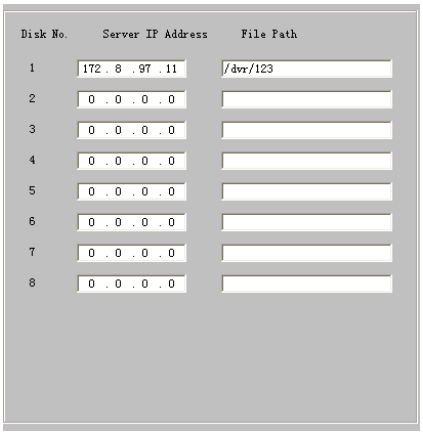
9.1.3.5 NFS

By NFS configuration, recorded data can be saved to the network storage disk provided by NAS server.

Select Network Parameters → NFS Settings

Input the IP address of NAS server in the blank “Server IP address”; and input the saving path allocated by NAS server in the blank “File Path”.

Note: Make sure that the device supports NFS function and NAS server allocated the storage space correctly. DS-9000 device does not support NFS function.



9.1.3.6 E-Mail

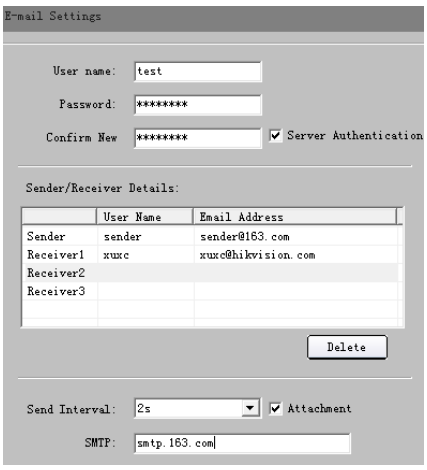
Through E-mail configuration, the e-mail can be sent to the designated mailbox when there is an alarm.

Select Network Parameters → E-mail Settings

If the server authentication is needed, enable it (i.e.) and input the user name and password.

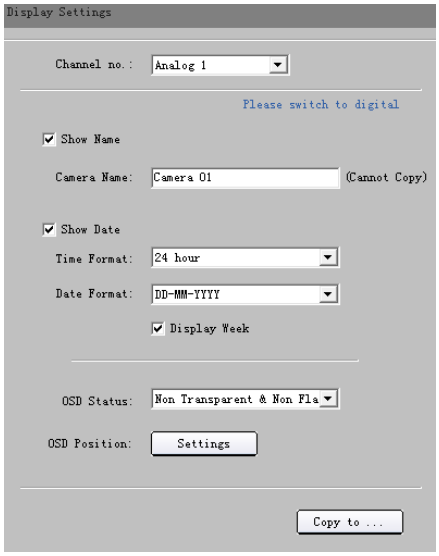
Input the sender and recipient information, if you want to send picture, you can enable “Attachment” (i.e.).

Note: Make sure that the device supports email function and NAS server allocated the storage space correctly. DS-9000 device does not support email function.



9.1.4 Channel Configuration

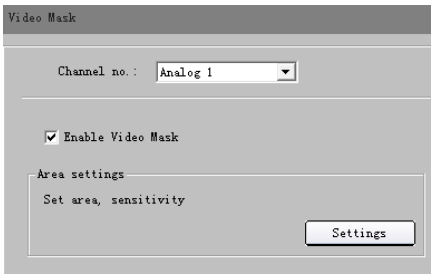
9.1.4.1 Channel Display Settings



Select Channel Parameters → Display Settings

You can configure channel name, OSD and related parameters.

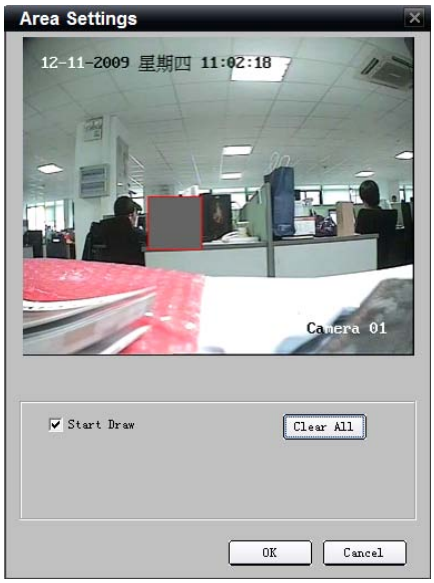
9.1.4.2 Video Mask



1st step: Select channel number, and enable video mask (i.e. ☑).

Select Channel Parameters → Video Mask

Note: If the device is DS-9000 series, click “Switch to digital” to choose IP channel and configure the parameters.



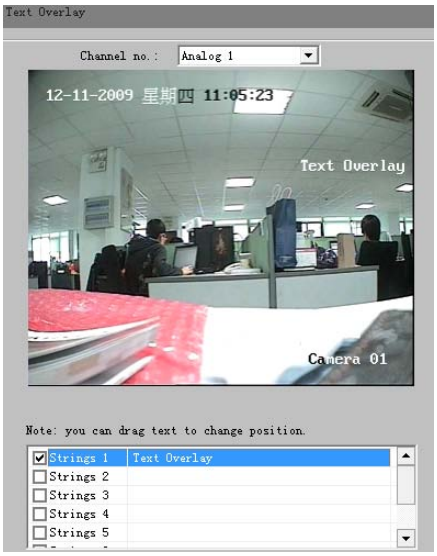
2nd step: Set the mask area.

Click “Settings” to enter area set menu.

Enable “Start Draw” (i.e.), and select the mask area by clicking and dragging the mouse.

9.1.4.3 Text Overlay

You can add characters on the screen of the channel.



Select Channel Parameters → Text Overlay

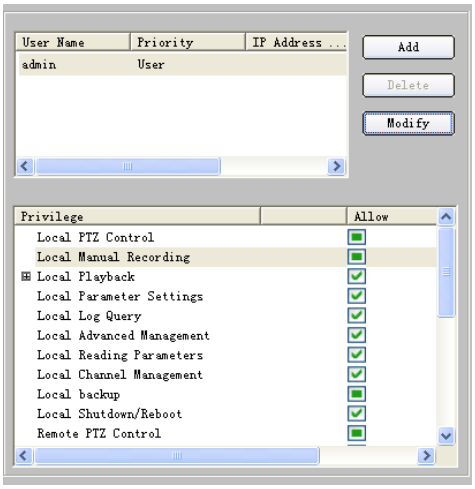
Tick “Strings 1” (i.e.) to enable text overlay, double click the strings area to input the characters you want to overlay on the screen.

Note: For DS-9000, only the analog channel supports text overlay.

9.1.5 Account Management

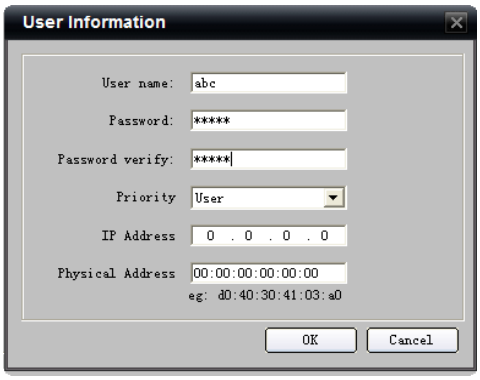
The default user name and password of device administrator are “admin” and “12345”. Administrator can remote add, delete users or distribute authority for users. The new added users are divided into two levels: user and operator. (For “Remote Configuration” privilege, operator has “Voice Talk” right, user does not; for “Channel Configuration” privilege, operator has all the rights, user has local playback, remote playback rights.)

Select Account Management comes into the account management interface.



Click “Add” to add user.

Note: If you set the IP address or physical address, and then only the PC with the same IP address or physical address can visit the device through network.



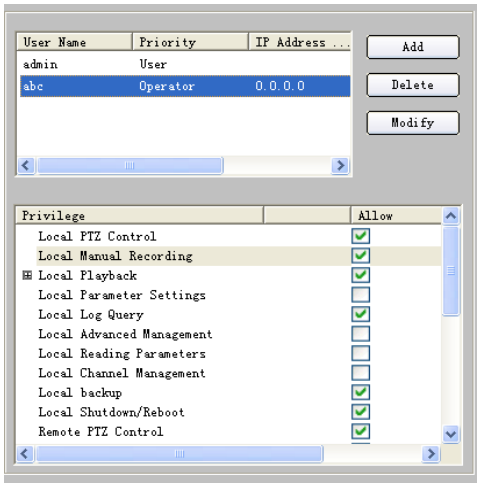
Click “Modify” to change the user name and password; click “Delete” to delete the user.

Status means privilege granted, and status means privilege not granted.

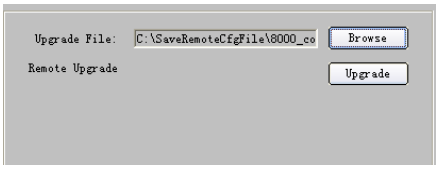
If the privileges are related to channels, then the status means granting the privileges of all channels; and status means granting no privileges of all channels.

Click to unfold the channels, and set the privilege for each channel. If only part of channels have operating privileges, the status will be.

Note: Please refer to the user manual of the device for the detailed descriptions on privileges.



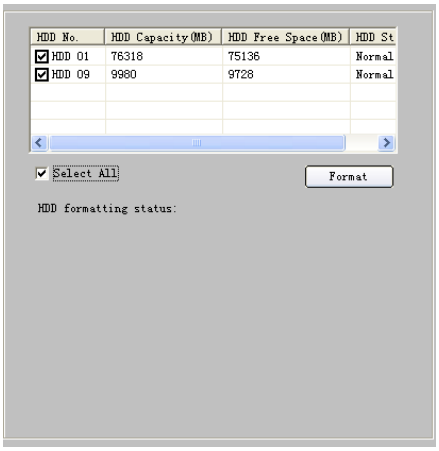
9.1.6 Others



Remote Upgrade:

Click Update Remotely

Click “Browse” to search the local upgrade file, click “Upgrade” to start upgrade remotely.



HDD Format:

Click HDD Format

Note: Please back up the data before formatting hard disk.

9.2 iVMS-2000 Remote Configuration

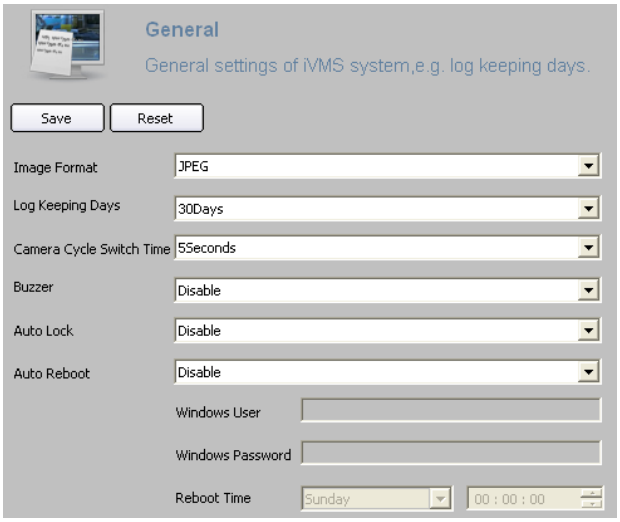
User can remotely configure a few parameters of the iVMS-2000.

Path: Setup → Device Management → Right click the device and select “Remote Configuration”

Note: this chapter just introduce it simply, particular document refer to the user manual of iVMS-2000.

9.2.1 General Configure

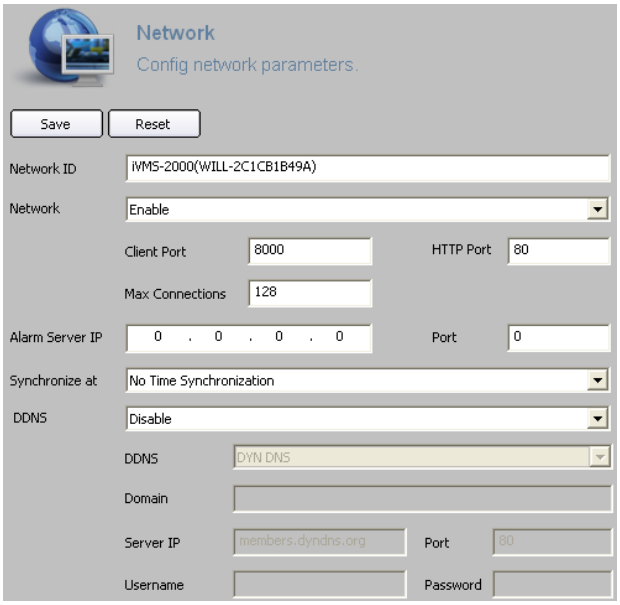
Software could remotely set the general parameters of iVMS-2000.



Click

to set the general parameters. Click “Save” button after finish configuration.

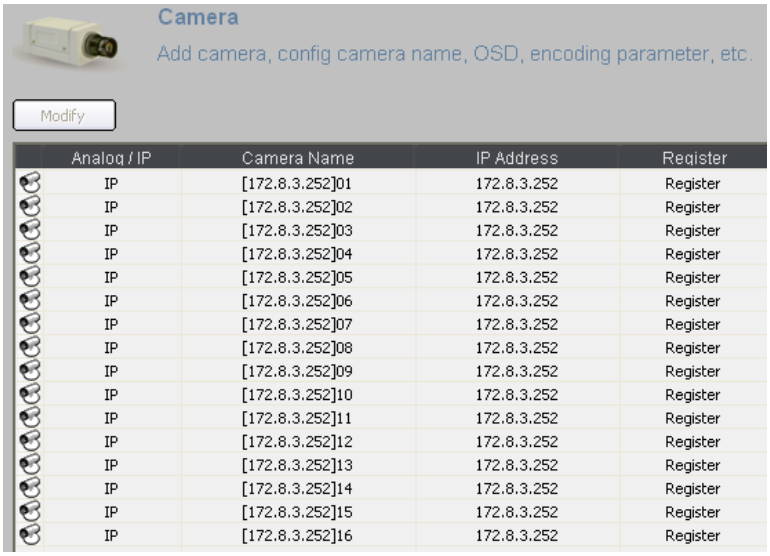
9.2.2 Network Configure



9.2.3 Camera Configure

Click

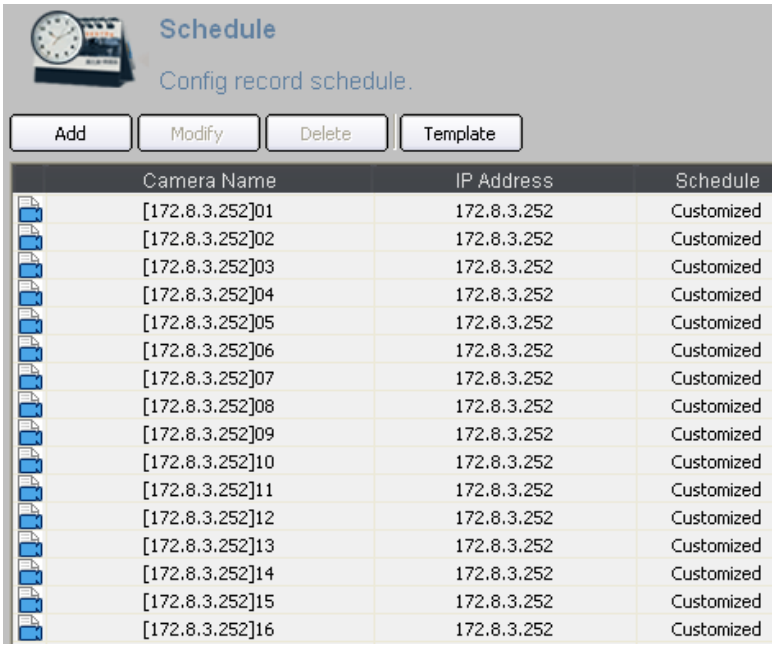
to set the camera parameters. Click “Save” button after finish configuration.



9.2.4 Schedule Configure

Click

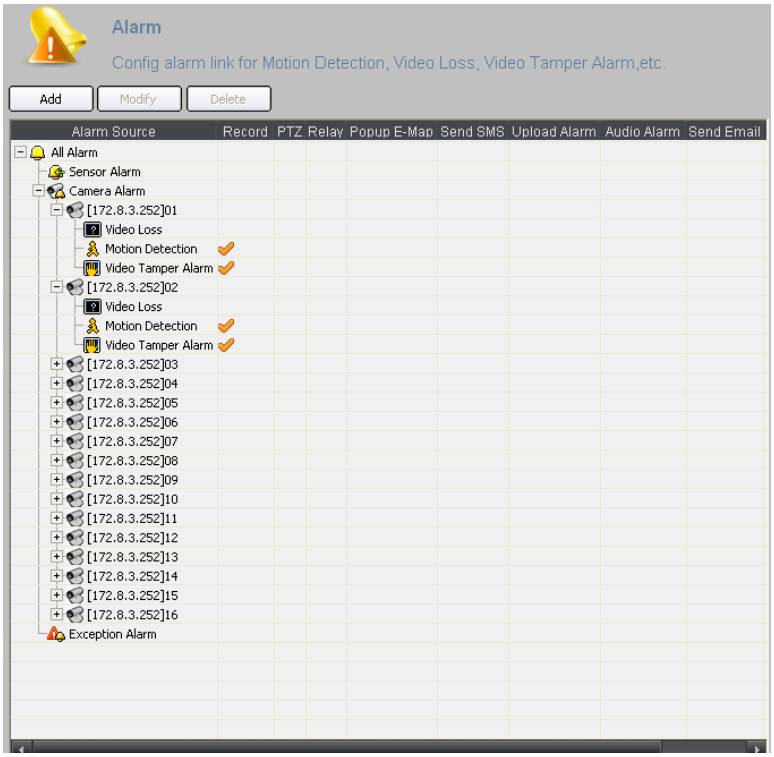
to set record schedule.



9.2.5 Alarm Configure

Click

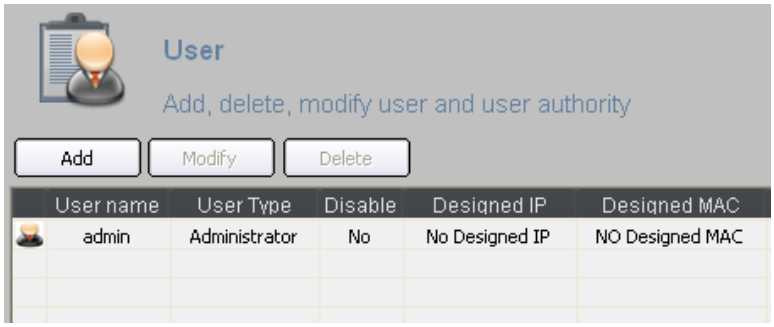
to set Alarm link.



9.2.6 User Configure

Click

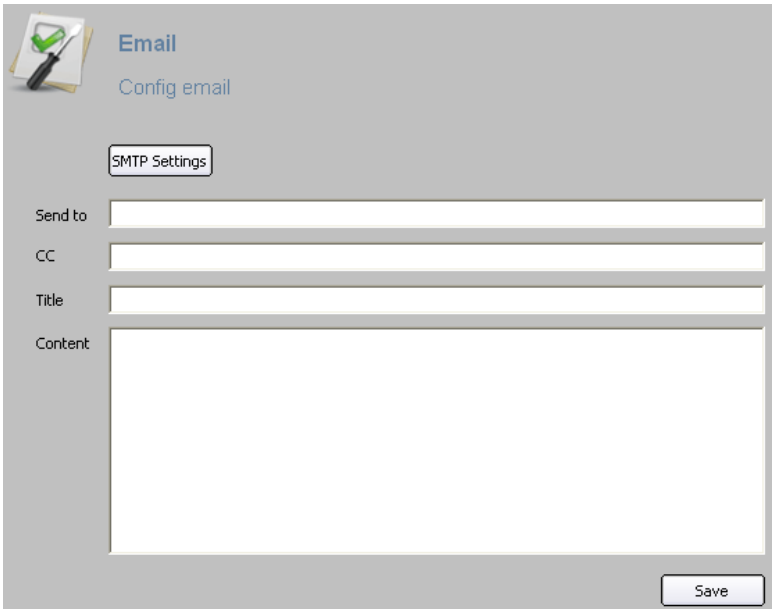
to set account information.



9.2.7 E-mail Configure

Click

to set e-mail information.

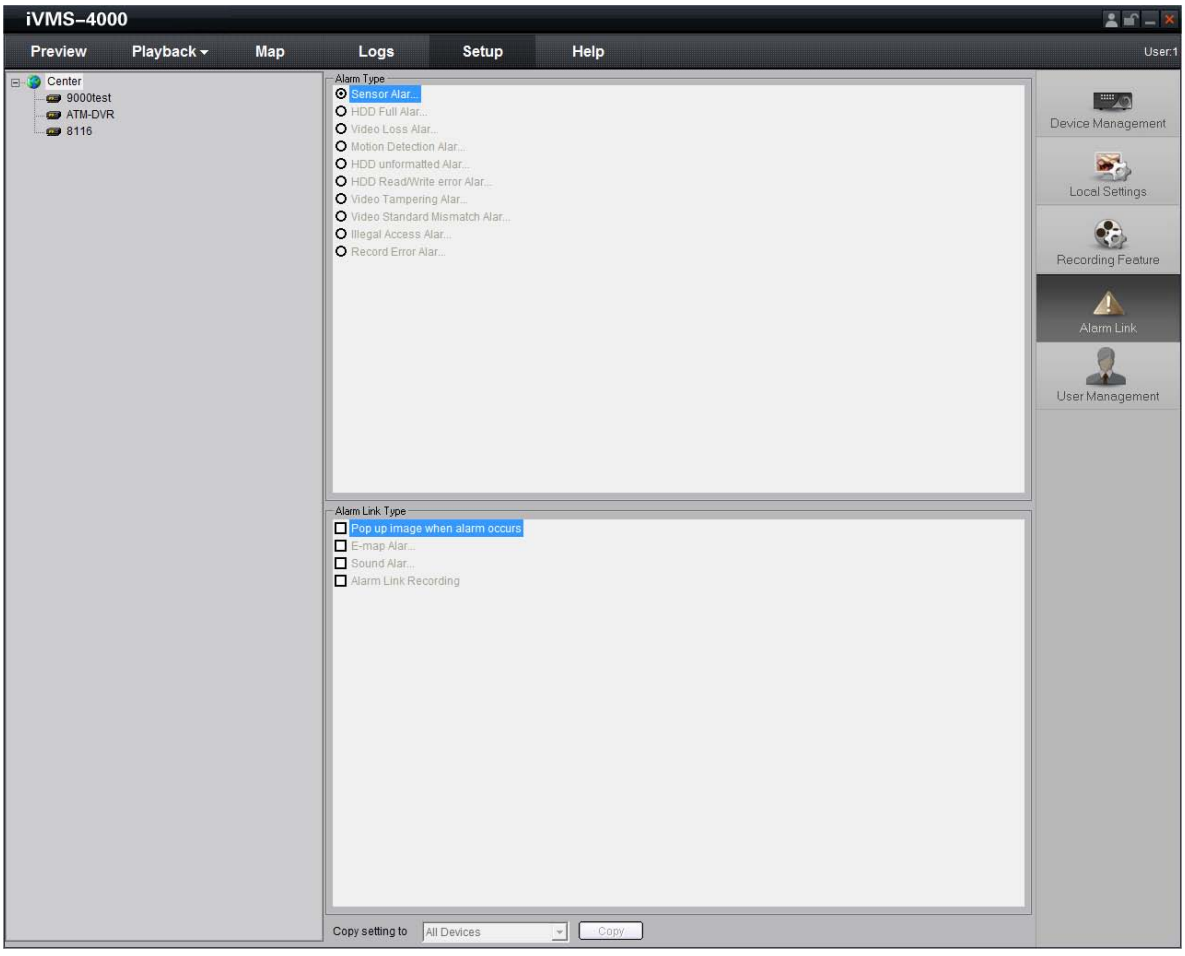


Chapter 10 Alarm Linkage

According to the various alarm signals uploaded from the device, iVMS software can configure the different linkages for them.

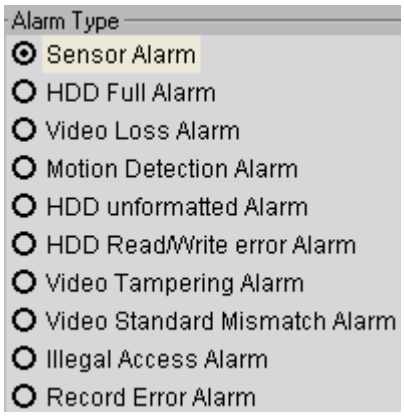
10.1 Linkage Configuration

Path: Setup → Alarm Link

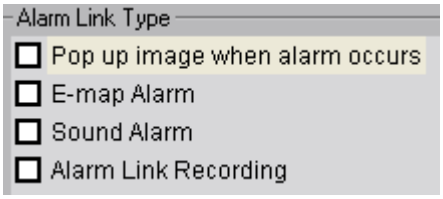


1st step: Select the device from the device area on the left, and activate the alarm type and alarm linkage type options.

2nd step: Select the alarm type, and then the alarm type status will become .



3rd step: Select the alarm linkage type for the alarm type, and status ☑ indicates being selected.



Descriptions on Alarm Linkage Type

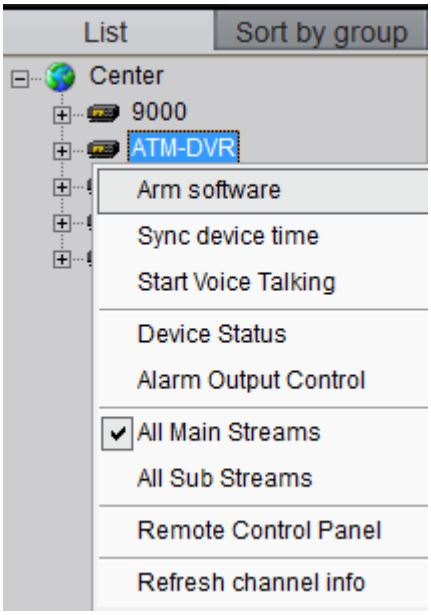
Linkage Types	Descriptions
Pop up image when alarm occurs	Pop up single screen image when alarm occurs
E-map Alarm	When alarm occurs, the related hotspot in the e-map twinkles
Sound Alarm	Alarm triggers local alarm sound
Alarm Link Recording	Alarm triggers local recording of alarm channel

Note: Before alarm linkage configuration, the alarm schedule and handle method of the device are required to set correctly.

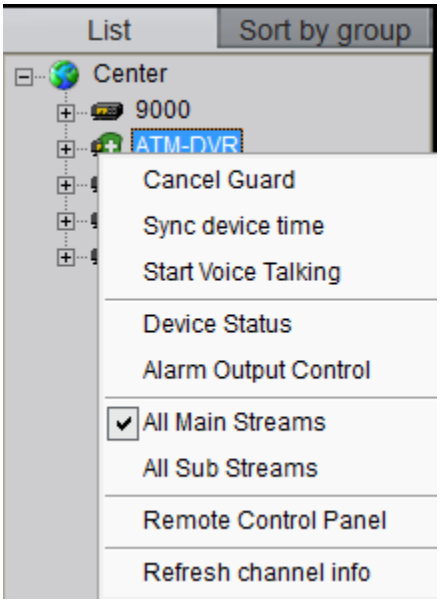
10.2 On Arm & Off Arm

You can choose “Arm software” or“Cancel Guard” to decide whether to handle alarm signal or not.

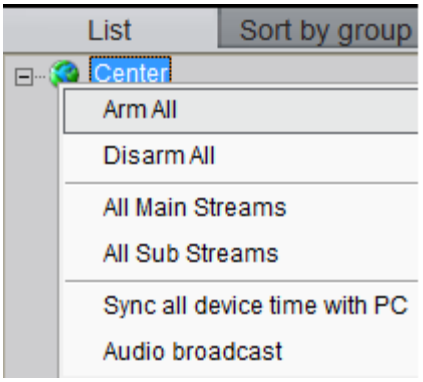
Right click the device name in the preview mode, and select “Arm software” to enable to monitor the alarm of the device; and the icon of the device will become as .



If the device is on guard, right click the device name, you can select the “Cancel Guard” to cancel monitoring the alarm of the device.



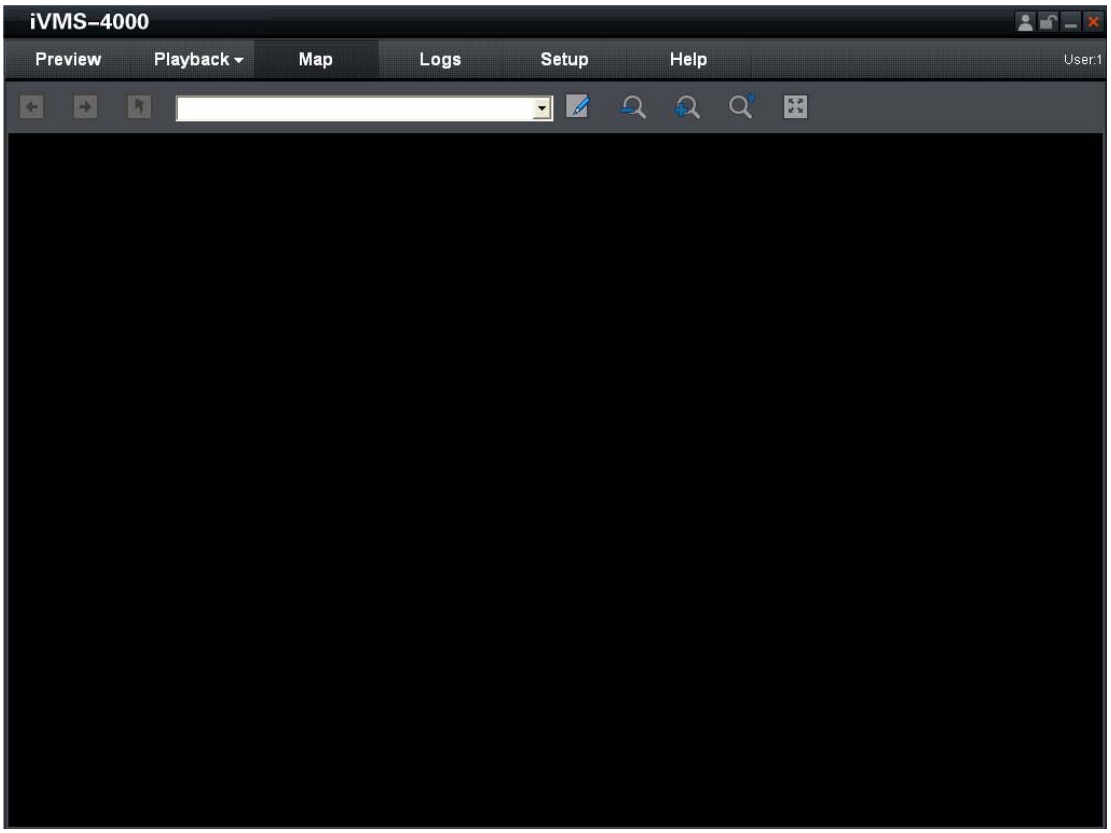
Right click the area name, select “Arm All” or “Disarm All” for the whole devices of the device.



After the device or the area fortified, the alarm linkage will become effective when there is an alarm of the device.

Chapter 11 E-Map

Click Map key to show the e-map window.



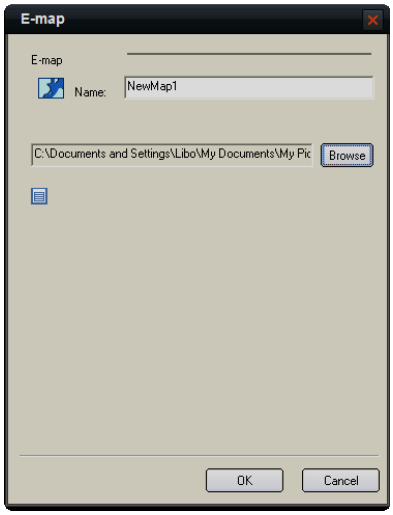
Toolbar Buttons Descriptions:

Buttons	Descriptions		Buttons	Descriptions
	Enable/Disable Map Edit			Enter/Exit Full Screen
	Zoom Out			Previous Page
	Zoom In			Next Page
	Zoom Adjustment			Upper Level

11.1 Add Map

1st step: Click button to enter map edit mode, the cursor will become as

2nd step: Right click the black area and select “Add Map” (or click button to display Map Info Area and right click the area and select “Add Map”), then the add map window will pop up.

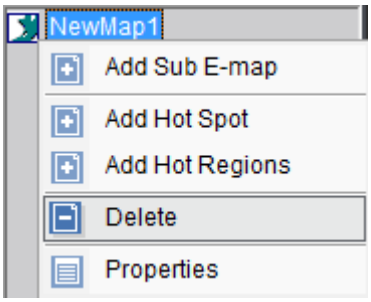


3rd step: Add the map.

Click “Browse” to search the image file on the local PC.

Click “OK” after renaming the file to finish.

Note: Supported file formats are BMP & JPEG.



4th step: Add sub map, right click the image name in the map info area or the image itself, and the sub menu will pop up.

Select “Add Sub E-map” to add sub map.

Select “Properties” to change the map name and image file.

Select “Delete” to delete the selected map.

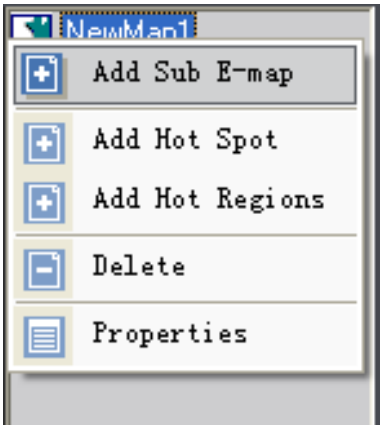
11.2 Map Configuration

Map configurations need to be done under the map edit mode.

11.2.1 Hot Spot

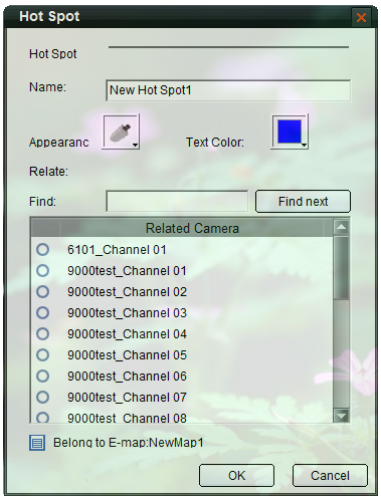
Through hot spot configuration, user can mark out the location and live view of the monitoring points on the e-map.

Add Hot Spot



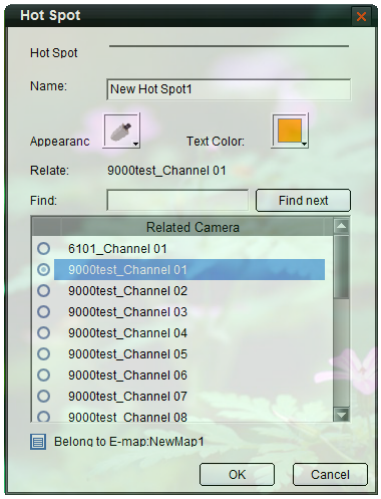
1st step: Enter add hot spot interface.

Right click the image name in the map info area or the image itself, and select “Add Hot Spot”.



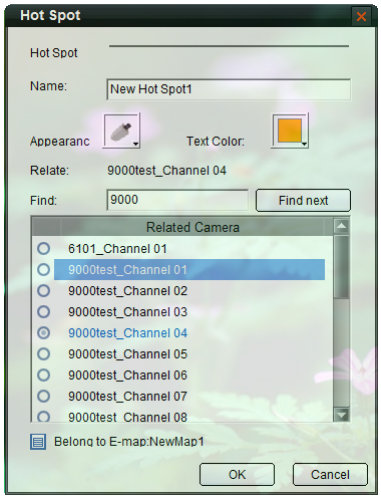
2nd step: Input the name of hot spot, click and select the icon for hot spot.

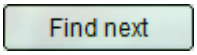
You can also click to change the color of characters.



3rd step: Select the channel you want to relate to in the list “Related Camera”, and press “OK” to finish.

After succeed to add hot spot, move the mouse to the icon of hot spot, it will become as , and you can move the hot spot by pressing left button and dragging.



Input the key words in the “Find” blank, click 

to find the channel whose name embraces the key words.

If the alarm links to e-map is set as alarm handling method, in the non-edit mode the hot spot will twinkle when there is an alarm of related channel triggered. Double click the hot spot; the live image of the related channel will pop out.

Edit Hot Spot

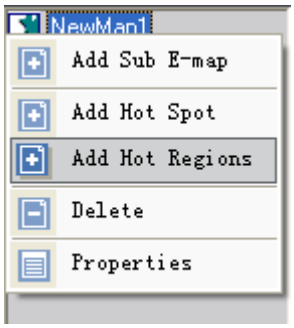
In the edit mode right click the icon of the hot spot, the edit menu will pop up.

Select “Delete” to delete the hot spot; select “Properties” to change the name, appearance and related monitoring point of the hot spot.

11.2.2 Hot Region

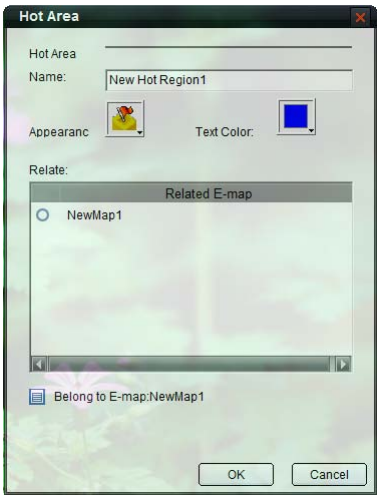
Hot region configuration can be used for displaying the sub map in the main map.

Add Hot Region



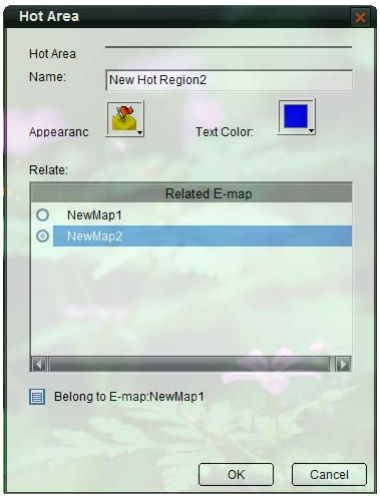
1st step: Enter hot region adding interface.

Right click the image name in the map info area or the image itself, and select “Add Hot Regions”.



2nd step: Input the name of the hot region, click button to select icon for hot region.

You can also click to change the color of characters.



3rd step: Select the map from the “Related E-map” list, and press “OK” to finish.

After succeed to add hot region, move the mouse to the icon of hot region, it will become as , and you can move the hot region by pressing left button and dragging.

After hot region related to the map, double click the hot region icon in the non-edit mode will show the related map.

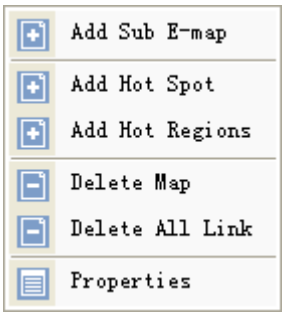
Note: You cannot edit map unless in the edit mode.

Edit Hot Region

In the edit mode right click the icon of the hot region, the edit menu will pop up.

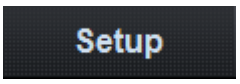
Select “Delete” to delete the hot region; select “Properties” to change the name, appearance and related map of the hot region.

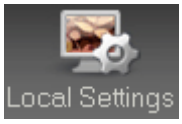
Right click the map in the edit mode, select “Delete All Link” to delete the all hot spot and region of the map.

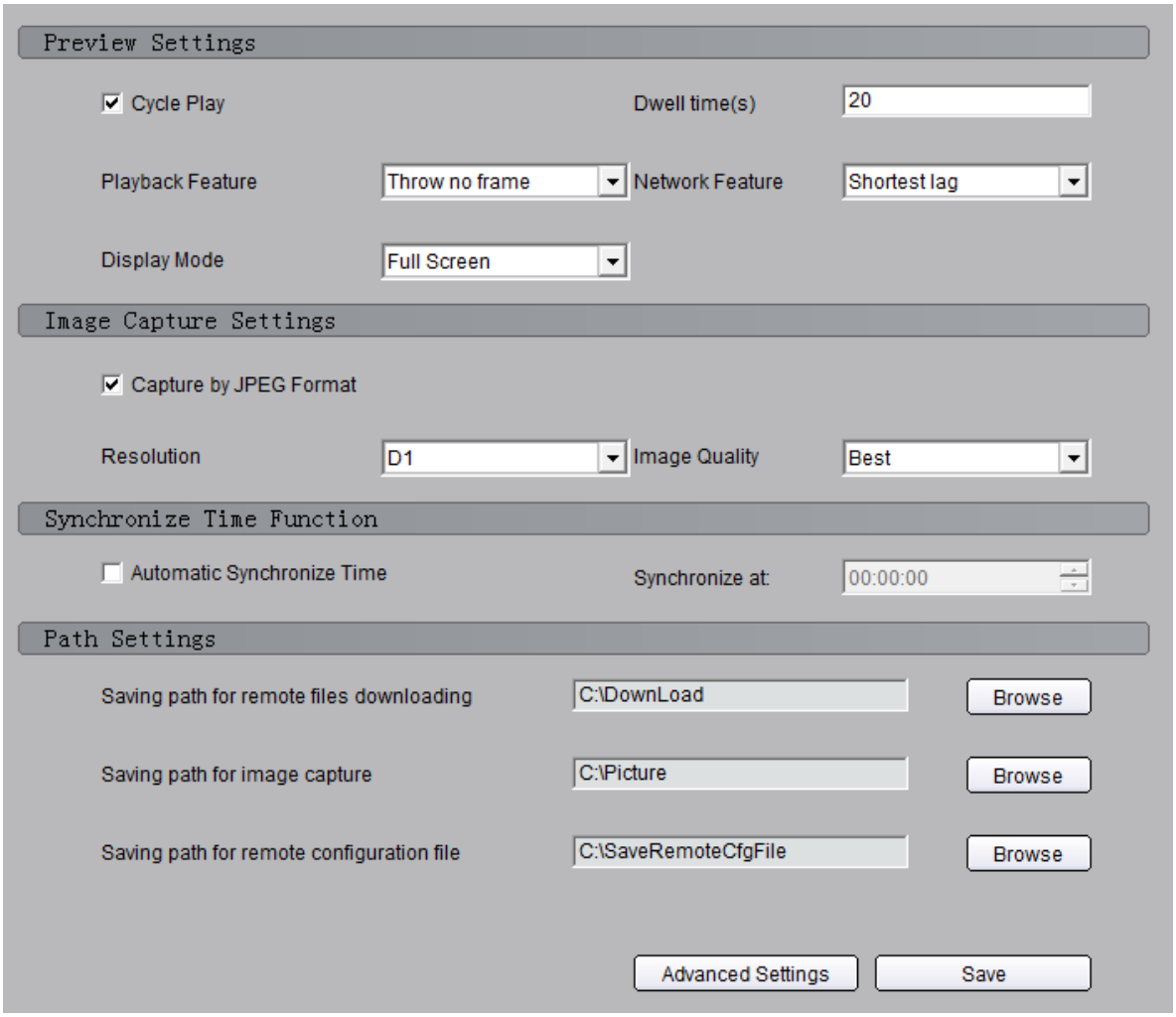


Chapter 12 Utilities

12.1 Software Configuration

Click 

→ 

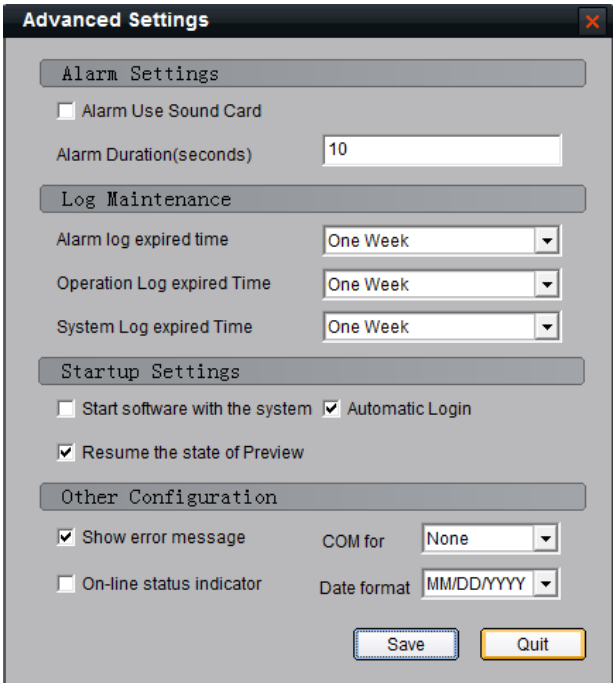


Descriptions on Software Configuration:

Software Configuration	Descriptions	Descriptions
Preview Settings	Cycle Play	☑ means enable it
	Dwell Time	Set the time of cycle play
	Playback Feature	Configure the playback performance, whether to drop B frame
	Network Feature	Set the instantaneity and fluency for preview

	Display Mode	Set the display ratio of preview window
Image Capture Settings	Capture Image by JPEG Format	☑means JPEG format
		☐ means BMP format Image resolution and quality can be configured
Synchronization Function	Auto Synchronize	☑ means enable it, and user can set the time for synchronization
Path Configuration	Remote Download Path	Set the path for remote downloading recorded files
	Capture Saving Path	The saving path of captures from preview or playback
	Configuration File Saving Path	The saving path for exporting the configuration file

Click “Advanced Configuration” to enter alarm configuration, log maintenance and other configurations.



Descriptions on Advanced Configuration:

Advanced Configuration	Descriptions	Descriptions
Alarm Settings	Alarm Use Sound Card	☑ means audible alarm outputs from sound card
	Alarm Duration	Set the time length of the alarm delay
Log Maintenance	Alarm Log expired Time	The retention period of the alarm log in the database
	Operation Log expired Time	The retention period of the operation log in the database
	System Log expired Time	The retention period of the system log in the database
Other Configuration	Show error message	Pop up the warning dialog box when error occurs
	Playback on second monitor	Select two screen display for e-map or remote playback
	On-line status Inspection	☑ means start to inspect the status of the current devices
	Auto Login	☑ means enable it
	COM for	Serial port number

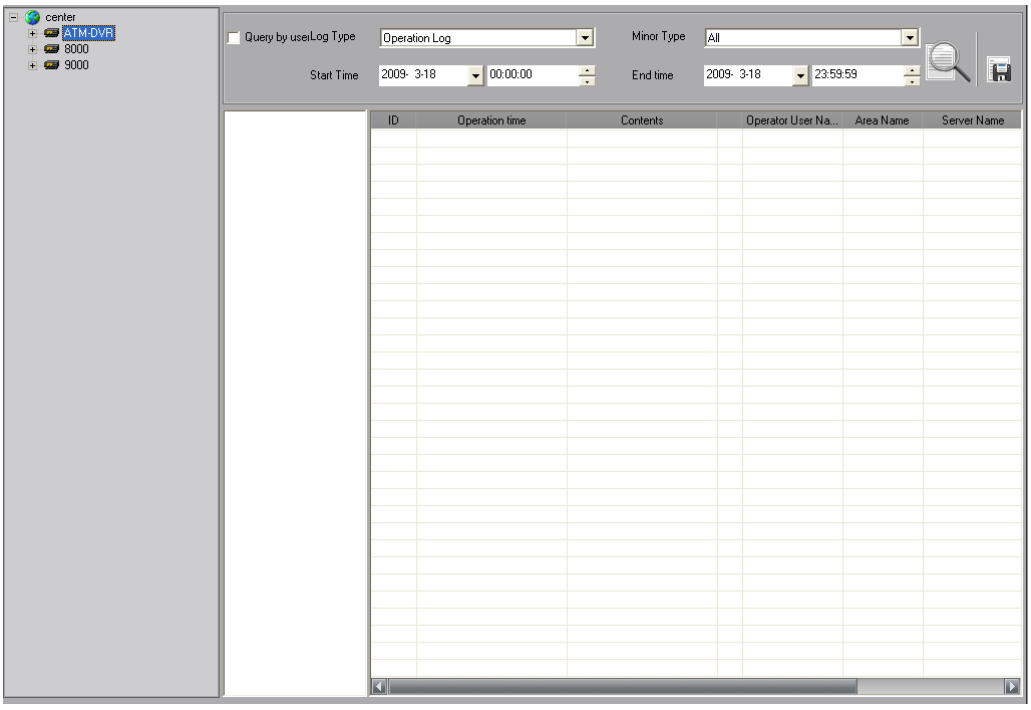
After enabling inspection, if the device is offline, then the alarm light will twinkle, and the detailed information will be listed; if the device is online, the alarm light stop twinkling and the on line information will be listed as well.

12.2 Log Management

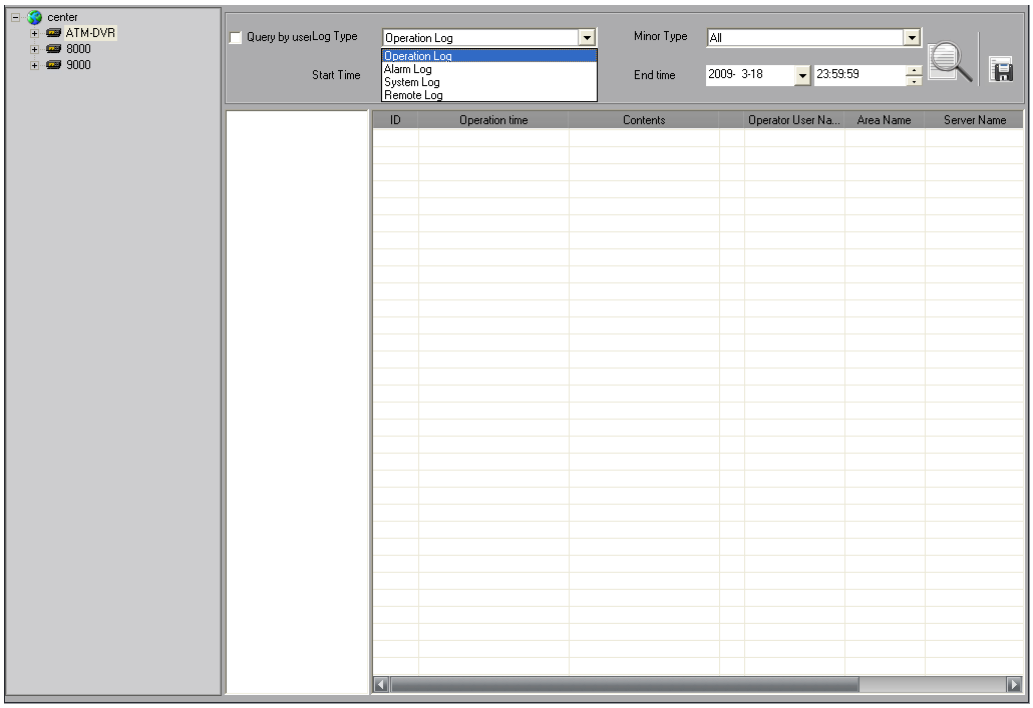
Click Log to enter the manage interface

12.2.1 Log Query

1st step: Select the area, device or channel you want to search from.



2nd step: Select type and subtype for the log you want to search for.



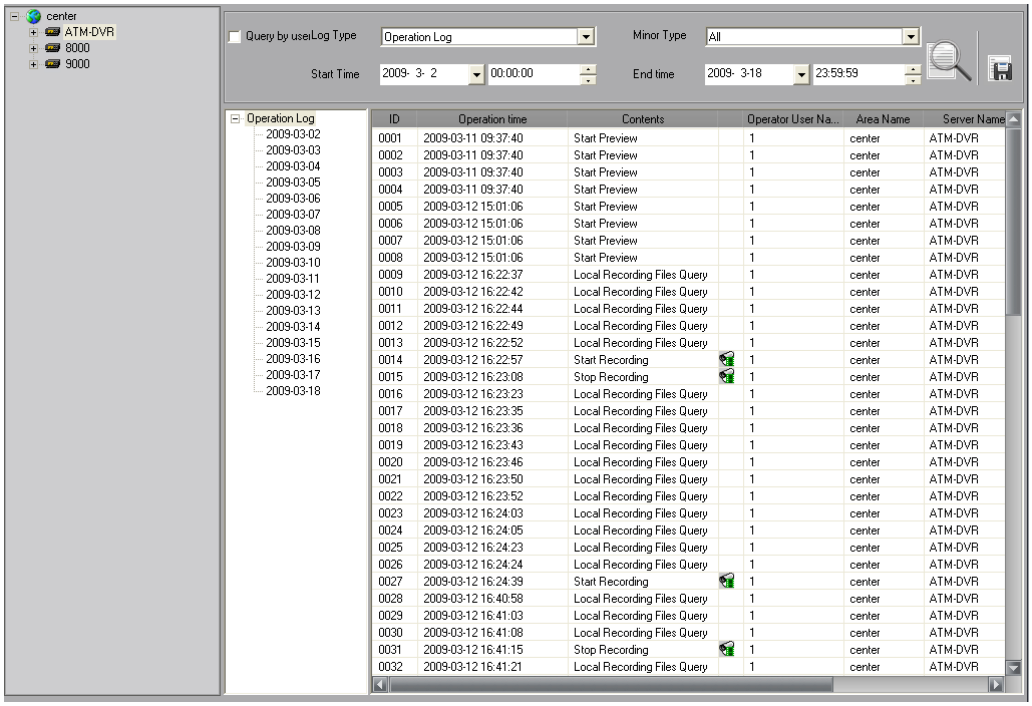
System Log: Record information on login, logout and software configuration.

Operation Log: Record information on the software operation.

Alarm Log: Record information on the alarm and it needs to be linked as alarm link type.

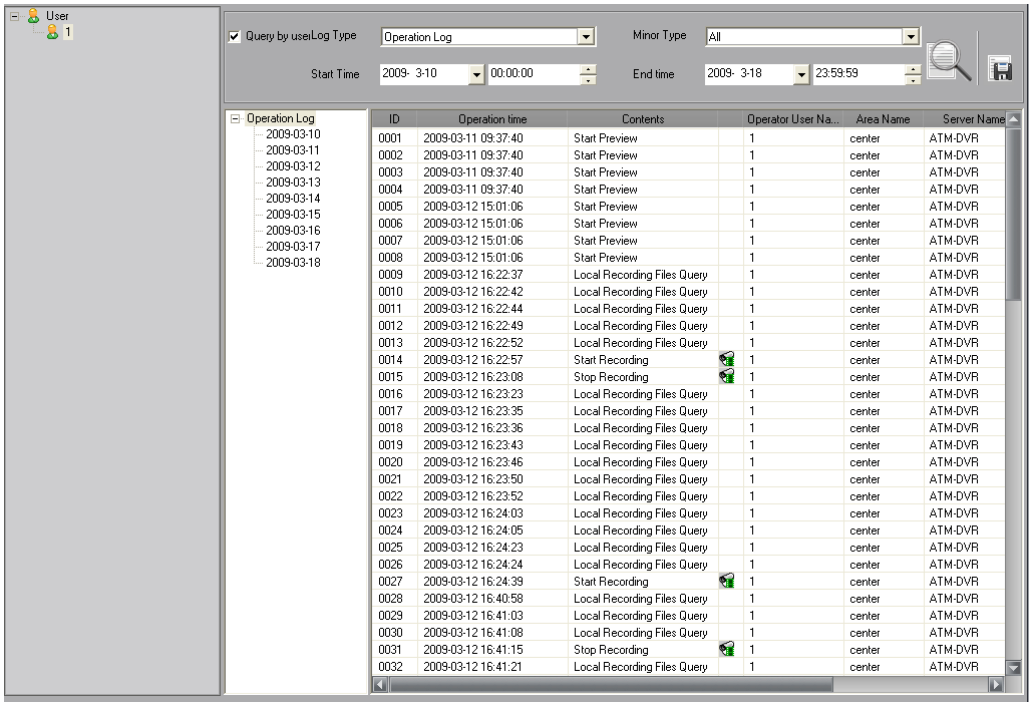
Remote Log: Record information on operations of the remote device.

3rd step: Select the start time and end time for the log query, click button and the logs match condition will show in the list.


center
ATM-DVR
8000
9000
Query by user
Log Type
Operation Log
Minor Type
All
Start Time
2009- 3- 2
00:00:00
End time
2009- 3-18
23:59:59
Operation Log
2009-03-02
2009-03-03
2009-03-04
2009-03-05
2009-03-06
2009-03-07
2009-03-08
2009-03-09
2009-03-10
2009-03-11
2009-03-12
2009-03-13
2009-03-14
2009-03-15
2009-03-16
2009-03-17
2009-03-18
ID
Operation time
Contents
Operator User Na...
Area Name
Server Name
0001 2009-03-11 09:37:40 Start Preview 1 center ATM-DVR
0002 2009-03-11 09:37:40 Start Preview 1 center ATM-DVR
0003 2009-03-11 09:37:40 Start Preview 1 center ATM-DVR
0004 2009-03-11 09:37:40 Start Preview 1 center ATM-DVR
0005 2009-03-12 15:01:06 Start Preview 1 center ATM-DVR
0006 2009-03-12 15:01:06 Start Preview 1 center ATM-DVR
0007 2009-03-12 15:01:06 Start Preview 1 center ATM-DVR
0008 2009-03-12 15:01:06 Start Preview 1 center ATM-DVR
0009 2009-03-12 16:22:37 Local Recording Files Query 1 center ATM-DVR
0010 2009-03-12 16:22:42 Local Recording Files Query 1 center ATM-DVR
0011 2009-03-12 16:22:44 Local Recording Files Query 1 center ATM-DVR
0012 2009-03-12 16:22:49 Local Recording Files Query 1 center ATM-DVR
0013 2009-03-12 16:22:52 Local Recording Files Query 1 center ATM-DVR
0014 2009-03-12 16:22:57 Start Recording 1 center ATM-DVR
0015 2009-03-12 16:23:08 Stop Recording 1 center ATM-DVR
0016 2009-03-12 16:23:23 Local Recording Files Query 1 center ATM-DVR
0017 2009-03-12 16:23:35 Local Recording Files Query 1 center ATM-DVR
0018 2009-03-12 16:23:36 Local Recording Files Query 1 center ATM-DVR
0019 2009-03-12 16:23:43 Local Recording Files Query 1 center ATM-DVR
0020 2009-03-12 16:23:46 Local Recording Files Query 1 center ATM-DVR
0021 2009-03-12 16:23:50 Local Recording Files Query 1 center ATM-DVR
0022 2009-03-12 16:23:52 Local Recording Files Query 1 center ATM-DVR
0023 2009-03-12 16:24:03 Local Recording Files Query 1 center ATM-DVR
0024 2009-03-12 16:24:05 Local Recording Files Query 1 center ATM-DVR
0025 2009-03-12 16:24:23 Local Recording Files Query 1 center ATM-DVR
0026 2009-03-12 16:24:24 Local Recording Files Query 1 center ATM-DVR
0027 2009-03-12 16:24:39 Start Recording 1 center ATM-DVR
0028 2009-03-12 16:40:58 Local Recording Files Query 1 center ATM-DVR
0029 2009-03-12 16:41:03 Local Recording Files Query 1 center ATM-DVR
0030 2009-03-12 16:41:08 Local Recording Files Query 1 center ATM-DVR
0031 2009-03-12 16:41:15 Stop Recording 1 center ATM-DVR
0032 2009-03-12 16:41:21 Local Recording Files Query 1 center ATM-DVR

Double click the date in the list on the left, the logs of that day will show in the information list.

Enable “Query by user” (i.e.), and you can search log by users.


User
1
Query by user
Log Type
Operation Log
Minor Type
All
Start Time
2009- 3-10
00:00:00
End time
2009- 3-18
23:59:59
Operation Log
2009-03-10
2009-03-11
2009-03-12
2009-03-13
2009-03-14
2009-03-15
2009-03-16
2009-03-17
2009-03-18
ID
Operation time
Contents
Operator User Na...
Area Name
Server Name
0001 2009-03-11 09:37:40 Start Preview 1 center ATM-DVR
0002 2009-03-11 09:37:40 Start Preview 1 center ATM-DVR
0003 2009-03-11 09:37:40 Start Preview 1 center ATM-DVR
0004 2009-03-11 09:37:40 Start Preview 1 center ATM-DVR
0005 2009-03-12 15:01:06 Start Preview 1 center ATM-DVR
0006 2009-03-12 15:01:06 Start Preview 1 center ATM-DVR
0007 2009-03-12 15:01:06 Start Preview 1 center ATM-DVR
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0014 2009-03-12 16:22:57 Start Recording 1 center ATM-DVR
0015 2009-03-12 16:23:08 Stop Recording 1 center ATM-DVR
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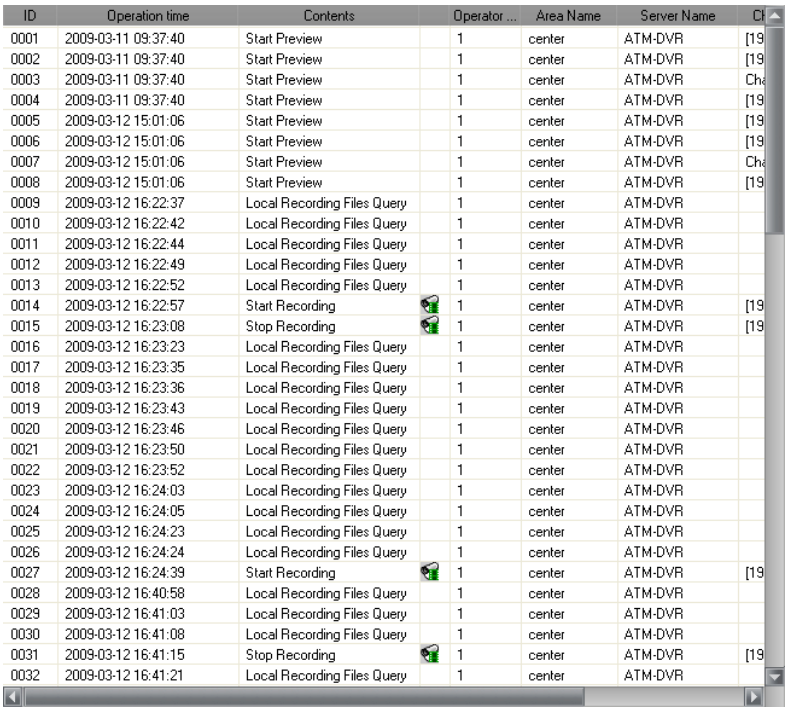
0029 2009-03-12 16:41:03 Local Recording Files Query 1 center ATM-DVR
0030 2009-03-12 16:41:08 Local Recording Files Query 1 center ATM-DVR
0031 2009-03-12 16:41:15 Stop Recording 1 center ATM-DVR
0032 2009-03-12 16:41:21 Local Recording Files Query 1 center ATM-DVR

Note: Up to 2000 logs can be displayed each time.

12.2.2 Playback Linked Recordings

If the logs contain linked recordings, then you can play them back.


ID
Operation time
Contents
Operator ...
Area Name
Server Name
0001 2009-03-11 09:37:40 Start Preview 1 center ATM-DVR
0002 2009-03-11 09:37:40 Start Preview 1 center ATM-DVR
0003 2009-03-11 09:37:40 Start Preview 1 center ATM-DVR
0004 2009-03-11 09:37:40 Start Preview 1 center ATM-DVR
0005 2009-03-12 15:01:06 Start Preview 1 center ATM-DVR
0006 2009-03-12 15:01:06 Start Preview 1 center ATM-DVR
0007 2009-03-12 15:01:06 Start Preview 1 center ATM-DVR
0008 2009-03-12 15:01:06 Start Preview 1 center ATM-DVR
0009 2009-03-12 16:22:37 Local Recording Files Query 1 center ATM-DVR
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0012 2009-03-12 16:22:49 Local Recording Files Query 1 center ATM-DVR
0013 2009-03-12 16:22:52 Local Recording Files Query 1 center ATM-DVR
0014 2009-03-12 16:22:57 Start Recording 1 center ATM-DVR
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0026 2009-03-12 16:24:24 Local Recording Files Query 1 center ATM-DVR
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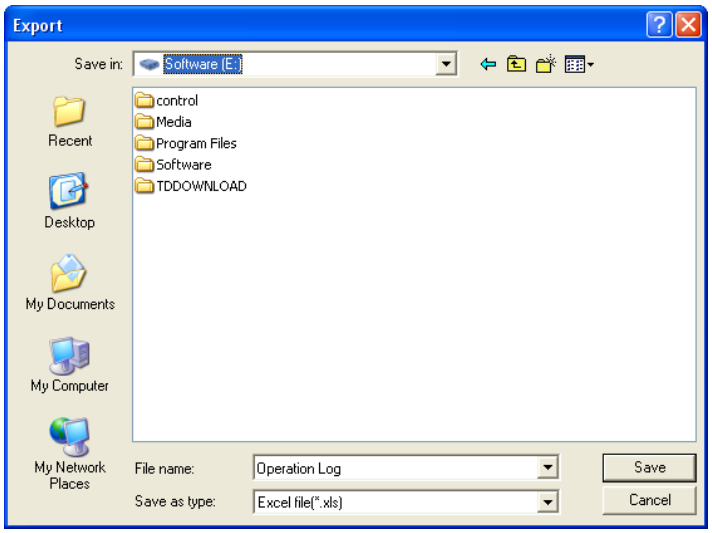
0031 2009-03-12 16:41:15 Stop Recording 1 center ATM-DVR
0032 2009-03-12 16:41:21 Local Recording Files Query 1 center ATM-DVR

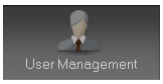
Click icon in the list to play back the linked recordings.

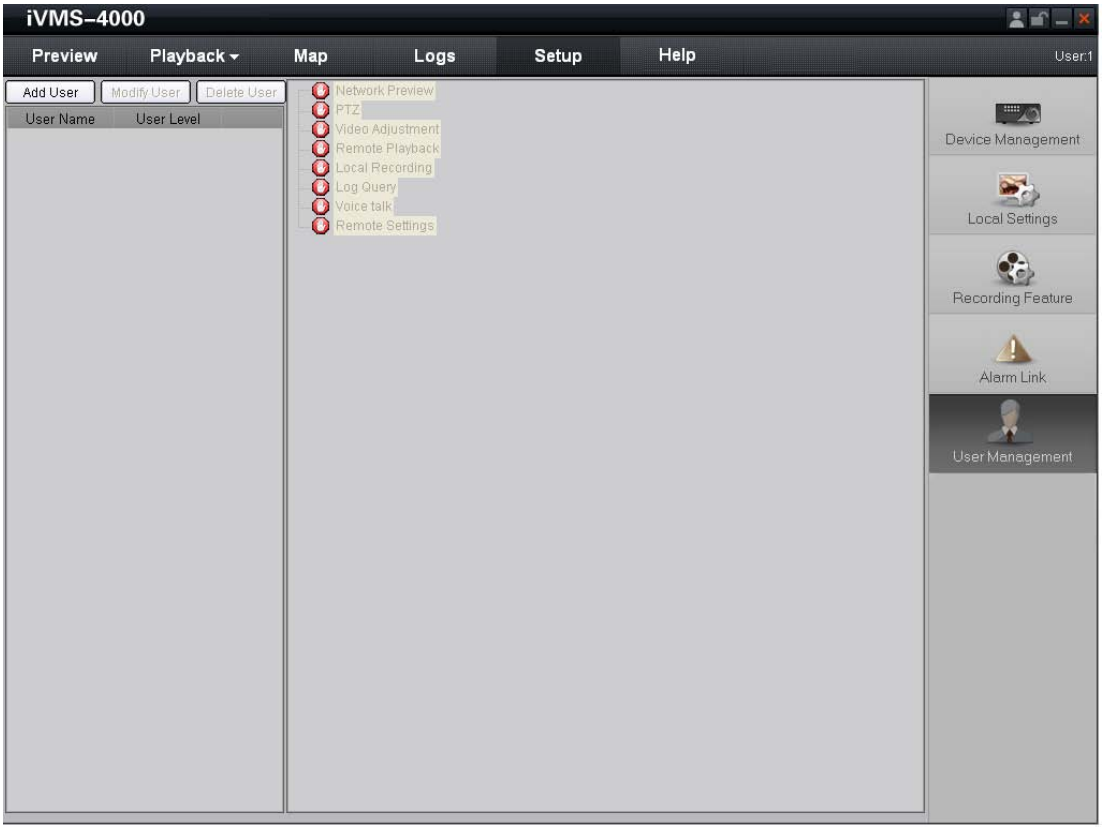
12.2.3 Export Log

Click button to export current logs as Excel or Txt format.



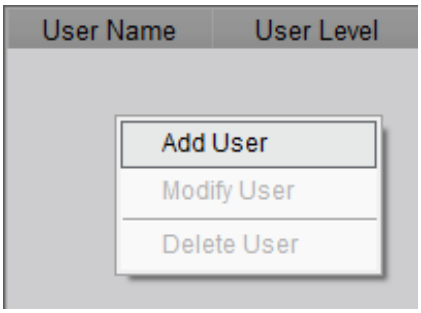
12.3 User Management

Click → 



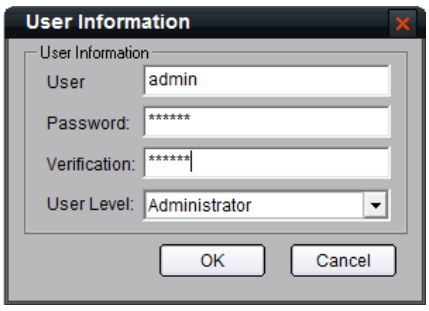
12.3.1 Add & Delete User

Right click the user list on the left, and select “Add User”.



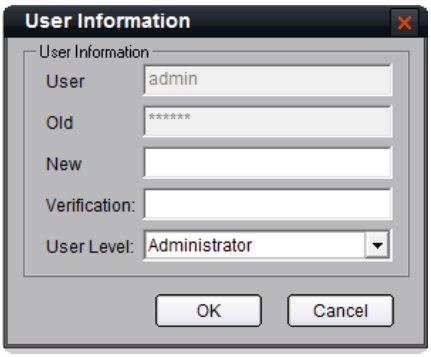
Input the user name, password and select the level for user, then click “OK” to finish.

There are two options for user level: Administrator and Guest. Administrator has all the rights by default; as for Guest, you need to set the rights for it.



Double click the user name or right click it and select “Modify User” to change the password and user level.

Note: The administrator registered when the software ran for the first can change password and user level; administrator can change user password, guest has no rights on user management.



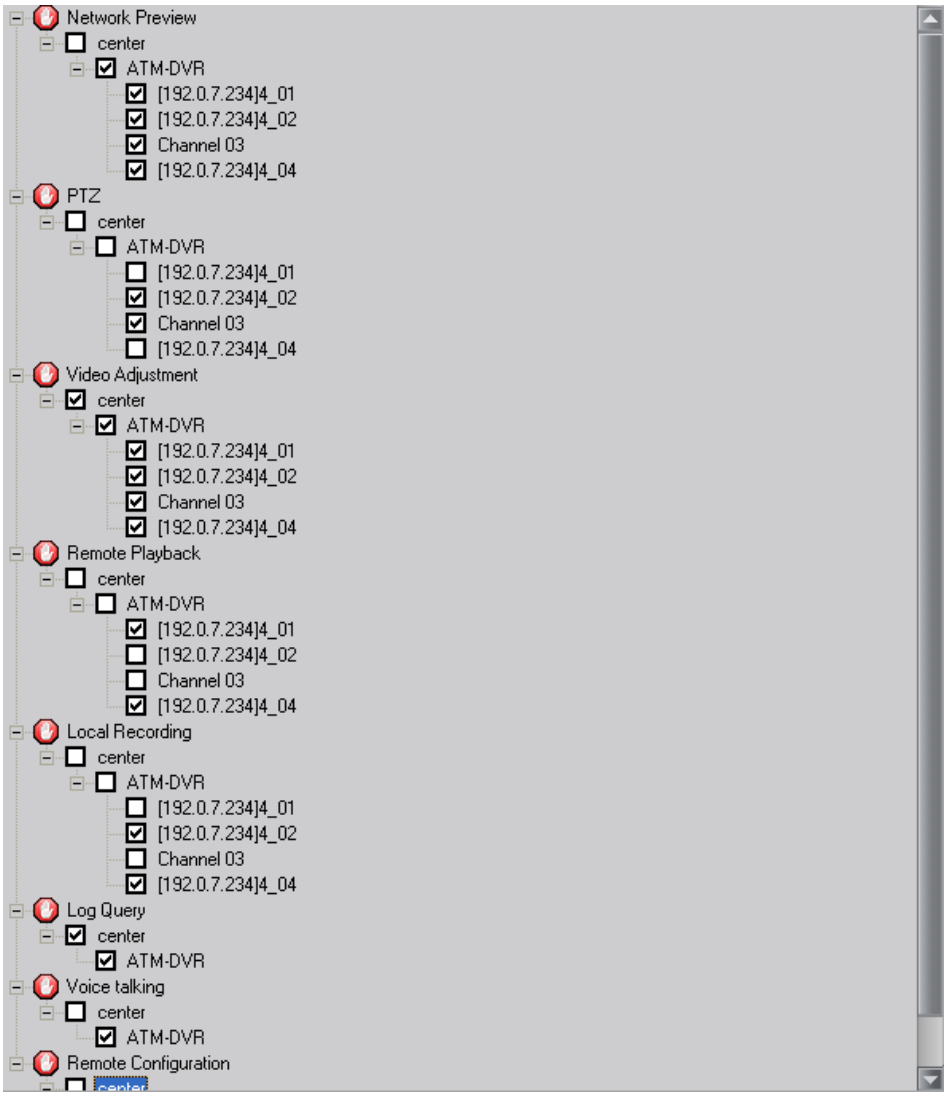
User Privileges Descriptions:

User Type	Privilege	Descriptions
Registered User	Add user	Add administrator and normal user
	Modify user	Modify the levels of all users and privileges of normal users
	Operation Privilege	With all privileges by default, cannot be changed.
Administrator	Add user	Add normal user
	Modify user	Modify the privileges of normal users
	Operation Privilege	With all privileges by default, cannot be changed.
Others	Add user	No privileges
	Modify user	No privileges
	Operation Privilege	No local configuration privileges, needs to set the privileges first.

Note: The administrator can be modified in the login dialog box instead of the user management. The password cannot be null and should be more than 6 characters.

12.3.2 User Rights Distribution

Select a guest, and click the rights tree on the right to distribute the rights for user.



Note: The operations are available for the guest only when the corresponding rights are distributed.